

# Kilian M. Pohl, Ph.D.

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## Professor

Department of Psychiatry and Behavioral Sciences

Department of Electrical Engineering (courtesy)

Stanford University

1070 Arastradero Road

Palo Alto, CA 94304

Updated 2/15/2024

## EDUCATION

Massachusetts Institute of Technology, Cambridge, Massachusetts Ph.D. in Computer Science	09/01 – 05/05
University of Karlsruhe, Karlsruhe, Germany Master of Science in Mathematics, Summa Cum Laude	10/95 – 06/99
University of Massachusetts – Amherst, Amherst, Massachusetts Visiting Graduate Student, Electrical & Computer Engineering	08/96 – 06/97
University of Karlsruhe, Karlsruhe, Germany Bachelor of Science in Mathematics	10/93 – 09/95

## PROFESSIONAL EXPERIENCE

Stanford University, Stanford, CA Professor (Research) Dept. of Psychiatry & Behavioral Sciences, School of Medicine (primary) Dept. of Electrical Engineering, School of Engineering (courtesy)	02/24 – present 02/24 – 08/26
Associate Professor (Research) Dept. of Psychiatry & Behavioral Sciences, School of Medicine (primary) Dept. of Electrical Engineering, School of Engineering (courtesy)	03/19 – 01/24 09/23 – 01/24
Consulting Associate Professor, Dept. of Psychiatry & Behavioral Sciences Consulting Assistant Professor, Dept. of Psychiatry & Behavioral Sciences	10/15 – 10/16 10/13 – 10/15
SRI International, Menlo Park, CA Program Director of Biomedical Computing, Center for Health Sciences Program Director, Center for Health Sciences Senior Research Scientist, Center for Health Sciences	10/16 – 02/23 08/14 – 10/16 06/13 – 07/14
University of Pennsylvania, Philadelphia, PA Assistant Professor (Tenure Track), Dept. of Radiology, Bioengineering Graduate Group	07/10 – 06/13
IBM Research - Almaden, San Jose, CA Research Staff Member, Dept. of Computer Science	10/08 – 06/10
Brigham and Women's Hospital, Harvard Medical School, Boston, MA Instructor, Dept. of Radiology Postdoctoral Research Fellow, Dept. of Radiology	11/06 – 09/08 10/05 – 10/06
Isomics, Cambridge, Massachusetts Consultant	10/05 – 06/07
Massachusetts Institute of Technology, Cambridge, MA Postdoctoral Research Affiliate, Dept. of Electrical Engineering & Computer Science Research Associate, Dept. of Electrical Engineering & Computer Science	10/05 – 06/09 09/01 – 05/05
Propack Data Corporation, Cary, NC Training Manager Technical Consultant	03/00 – 04/01 07/99 – 02/00
University of Karlsruhe, Karlsruhe, Germany Research Assistant, Dept. of Computer Science	01/98 – 06/99

**HONORS**

Leadership and Professionalism Award, Department of Psychiatry and Behavioral Sciences, Stanford	2023
Best Paper Award of the MICCAI Workshop on Predictive Intelligence in Medicine	2022
Runner-up of Elsevier Medical Image Analysis Best Paper Award (1800 submissions)	2021
Creative and Novel Ideas in HIV Research Award, The 20 <sup>th</sup> International AIDS Conference	2014
Two Top 10 most accessed papers of IEEE Transactions on Medical Image Analysis in December	2012
Top 10 Paper of the 8th International Symposium on Biomedical Imaging (736 submissions)	2011
IBM Research Accomplishment, IBM	2009
Elsevier Medical Image Analysis Best Paper Award (575 submissions)	2007
Student Award, IEEE International Symposium on Biomedical Imaging	2004
Student Travel Award, Tenth Annual Meeting of the Organization for Human Brain Mapping	2004
Summa Cum Laude, Masters, Department of Mathematics, University of Karlsruhe	1999
One-Year US Graduate School Scholarship, State of Baden-Wuerttemberg, Germany	1996

**JOURNAL REVIEW****Editorial Board**

Medical Image Analysis 2017 – present

**Senior Editor**

Medical Image Analysis 2024 – present

**Associate Editor**

IEEE Transactions on Medical Imaging 2016 – present  
 Medical Image Analysis 2021 – 2023

**Review Editor**

Frontiers in Neuroscience: Brain Imaging Methods 2013 – 2023

**Special Issue Editor**

The National Consortium on Alcohol and Neurodevelopment in Adolescence (NCANDA) in Developmental Cognitive Neuroscienc 2023 – present

**Book Editor**

ABCD Neurocognitive Prediction Challenge 2019  
 Springer-Verlag, Lecture Notes in Computer Science, Vol. 11791, 188 pages  
 Information Processing in Medical Imaging 2013  
 Springer-Verlag, Lecture Notes in Computer Science, Vol. 7917, 782 pages

**Reviewer**

Alcoholism: Clinical and Experimental Research  
 Archives of General Psychiatry  
 Computer Methods and Programs in Biomedicine  
 Computer Vision and Image Understanding  
 Computers in Biology and Medicine  
 Developmental Cognitive Neuroscience  
 eLife  
 Experimental Neurology  
 Human Brain Mapping  
 IEEE Journal of Biomedical and Health Informatics  
 IEEE Transactions on Biomedical Engineering  
 IEEE Transactions on Image Processing  
 IEEE Transactions on Medical Imaging  
 IEEE Transactions on Pattern Analysis & Machine Intelligence  
 International Journal of Computer Vision  
 Journal of Magnetic Resonance Imaging  
 Journal of Mathematical Imaging and Vision

Journal of Medical Imaging  
 Medical Image Analysis  
 Magnetic Resonance in Medicine  
 Nature Biomedical Engineering  
 Nature Communications  
 Nature Mental Health  
 Molecular Psychiatry  
 NeuroImage  
 Neuroinformatics  
 Pattern Recognition Letters  
 Psychiatry Research: Neuroimaging  
 Scientific Reports  
 SLEEP

## **SCIENTIFIC REVIEW**

### **NIH**

ZRG1 BBBT-T (55) R: Biomedical Data Repositories and Knowledgebases	March, 2024
ZDA1 LXF-E (A1) R: Accelerating the Pace of Drug Abuse Research Using Existing Data	June, 2023
ZMH ERB-G(G1): RFP Review: National NeuroHIV Tissue Consortium (NNTC) Clinical Sites and Data Coordination Centers	February, 2023
ZDA1 LXF-C (02) R: Accelerating the Pace of Drug Abuse Research Using Existing Data	October, 2022
ZDA1 LXF-C (06) R: Mechanistic studies on the impact of social inequality on the substance use trajectory	February, 2022
ZRG-1 BST-V-30: S10 Biomedical Research Support Shared Instrumentation Grants	November, 2021
ZDA1 GXM-A (06) R: Advancing HIV/AIDS Research through Computational Neuroscience FOA (R01 - Clinical Trial Optional), National Institute on Drug Abuse	March, 2021
ZRG1 BST-J(31): PAR Panel: Shared Instrumentation: Bioengineering Sciences and Technologies (S10)	November, 2020
EITA: Emerging Imaging Technologies and Applications Study Section The Surgical Sciences, Biomedical Imaging, and Bioengineering IRG	October, 2020
EITA: Emerging Imaging Technologies and Applications Study Section The Surgical Sciences, Biomedical Imaging, and Bioengineering IRG	February, 2020
BMIT-A: Biomedical Imaging Technology – A, The Surgical Sciences, Biomedical Imaging, and Bioengineering IRG	September, 2017
BMIT-A: Biomedical Imaging Technology – A, The Surgical Sciences, Biomedical Imaging, and Bioengineering IRG	June, 2017
ZDA1 GXM-A(33): Analytical Tools and Approaches for (Multidimensional) Scholarly Research Assessment and Decision Support in the Biomedical Enterprise	February, 2017
BDMA: The Biodata Management and Analysis Study Section, Bioengineering Sciences and Technologies IRG	February, 2017
ZRG1 BST-T 03: The Bioengineering Sciences and Technologies Member Conflict Special Emphasis Panel	November, 2016
BDMA: The Biodata Management and Analysis Study Section, Bioengineering Sciences and Technologies IRG	February, 2016
BDMA: The Biodata Management and Analysis Study Section, Bioengineering Sciences and Technologies IRG	October, 2015
The National Institute of Diabetes and Digestive and Kidney Diseases	2011
Technical Evaluation Group - Next Generation Software for Biomedical Image Analysis: Reinventing the Insight Toolkit (ITK-v4.0)	2010

**Program of Fonds de Recherche du Québec - Nature et Technologies**

Research Support for New Academics	2018
New University Researchers Start-Up Program	2011

**CIMIT**

Center for Integration of Medicine & Innovative Technology (CIMIT) Grant Review	2010
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**Deutschen Forschungsgemeinschaft (DFG)**

Grant Reviewer	2019
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**CONFERENCE ACTIVITIES****International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)**

Conference	
Reviewer	2005 – 2010, 2017- present
Invited Member of the Academia & Industry - Networking Session	2022
MICCAI Best Young Presenter Award Committee	2019
Program Committee Member	2011 – 2016
Chair of Oral Session “Registration and Atlases Construction”	2013
MICCAI Young Investigator Award Committee	2013
Co-Chair of Workshops, Tutorials, and Challenges	2012
International Workshop on Machine Learning in Medical Imaging	
Program Committee Member	2011 – present
Workshop on Shape in Medical Imaging	
Advisory Panel	2018 - 2020
Workshop on Predictive Intelligence in Medicine	
Program Committee Member	2020
ABCD Neurocognitive Prediction Challenge	
Chair	2019
Workshop on Spectral and Shape Analysis in Medical Imaging	
Advisory Panel	2015 – 2017
Medical Computer Vision Workshop	
Program Committee Member	2010 – 2016
Interactive Medical Image Computing Workshop	
Program Committee Member	2014 – 2015
Bayesian & Graphical Models for Biomedical Imaging Workshop	
Program Committee Member	2014
Spatio-Temporal Image Analysis Workshop	
Program Committee Member	2012, 2014
Probabilistic Modeling for Medical Image Analysis	
Co-Chair	2009

**International Conference on Computer Vision**

Reviewer	2023
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**Computer Vision and Pattern Recognition**

Reviewer	2023
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**Workshop on Biomedical Image Registration**

Session Chair	2022
Program Committee Member	2012, 2014, 2018

**Winter Conference on Applications of Computer Vision**

Reviewer	2020
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**Medical Imaging with Deep Learning**

Reviewer	2020
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<b>Biennial International Conference on Information Processing in Medical Imaging</b>	
Co-Chair	2013
Program Committee Member	2009, 2011, 2015, 2017, 2019
<b>Medical Imaging and Augmented Reality &amp; Environments for Computer-Assisted interventions</b>	
Reviewer	2013
<b>IEEE Visualization Conference</b>	
Reviewer	2011

## STANFORD COMMITTEES

<b>Stanford University School of Medicine AI Faculty Cluster Hire Search Committee</b>	
Primary Contact for the Department of Psychiatry	2024 – present
<b>Annual Department Awards Committee, Department of Psychiatry &amp; Behavioral Sciences</b>	
Member	2021 – present
<b>Stanford Neurosciences PhD Program Admissions</b>	
Screeener	2022 – present
<b>Jaswa Innovator Award Committee</b>	
Member	2022
<b>Deputy Director for the National Center for PTSD Dissemination and Training Division Search Committee</b>	
Member	2021
<b>Research Track of the General/Adult Psychiatry Residency</b>	
Interviewer	2021
<b>NTL-R fNIRS Brain Imaging Search (Committee Billet 72171)</b>	
Member	2021

## GRANTS

### Current

NIH/NIDA R01 DA057567	(MPI: Pohl & Tapert)	09/22 – 08/27
Title: Interpretable Deep Forecasting of Hazardous Substance Use during High School		
Agency: National Institute of Health		
Role: Multiple Principal Investigator (Administrative)		
NIH/NIAAA U24 AA021697	(MPI: Pohl & Pfefferbaum)	12/14 – 06/27
Title: NCANDA: Data Analysis Resource		
Agency: National Institute of Health		
Role: Multiple Principal Investigator (Administrative)		
NIH/NIAAA U24AA021697-12S1	(PI: Pohl)	09/23 – 06/24
Title: NCANDA: Data Analysis Resource - Uploading Legacy Data to NDA		
Agency: National Institute of Health		
Role: Principal Investigator		
DGIST Joint Research Project	(MPI: Pohl & Adeli)	09/22 – 12/24
Title: Federated Learning for Multi-Domain Brain Image Analysis		
Agency: Daegu Gyeongbuk Institute of Science & Technology, South Korea		
Role: Multiple Principal Investigator (Administrative)		
NIH/NIAAA U01 AA017347	(Pfefferbaum)	09/18 – 08/28
Title: Tracking HIV Infection & Alcohol Abuse CNS Comorbidity with Neuroimaging		
Agency: National Institute of Health		
Role: Co-Investigator		

NIH/NIAAA U01 AA010723	(MPI: Sullivan & Zahr)	08/21 – 06/26
Title: Alcohol: A Modifiable Risk Factor for Ataxia and Decline in MCI		
Agency: National Institute of Health		
Role: Co-Investigator		
NIH/NIAAA R01 AA005965	(MPI: Pfefferbaum & Zahr)	04/15 – 04/26
Title: CNS Deficits: Interaction of Age & Alcoholism		
Agency: National Institute of Health		
Role: Co-Investigator		

**Past**

NIH/NIMH R01 MH113406	(MPI: Valcour & Pohl)	05/17 – 01/24
Title: Machine learning to distinguish HAND from Alzheimer's disease in HIV over age 60		
Agency: National Institute of Health		
Role: Multiple Principal Investigator		
2022 HAI-Google Cloud Credits Award	(MPI: Pohl & Zhao)	07/22 – 09/23
Title: Deep Learning Methods for Multi-Modal Neuroimage Decoding		
Agency: Institute for Human-Centered Artificial Intelligence, Stanford		
Role: Multiple Principal Investigator (Administrative)		
NIH/NIMH R43 MH119022	(PI: Chaudhary)	06/20 – 05/23
Title: MIQA: A Highly Scalable and Customizable Platform for Medical Image Quality Assessment – Phase II		
Agency: National Institute of Health		
Role: Principal Investigator of the Subcontract		
2021 HAI-Google Cloud Credits Award	(PI: Pohl)	07/21 – 06/22
Title: Interpretable and Unbiased Deep Learning for Neuroimaging Applications		
Agency: Institute for Human-Centered Artificial Intelligence, Stanford		
Role: Principal Investigator		
NIH/NIAAA U01AA021696-09S1	(MPI: Baker & Colrain)	09/20 – 06/22
Title: Impact of the Coronavirus Pandemic on Alcohol Consumption and Mental Health in Young People		
Agency: National Institute of Health		
Role: Principal Investigator of the Subcontract		
NIH/NIAAA U01 AA013521	(MPI: Pfefferbaum & Zahr)	02/18 – 01/22
Title: Neuroimaging of Alcohol-Induced Neuroadaptation: Translation from Animals to Humans		
Agency: National Institute of Health		
Role: Co-Investigator		
NIH NIAAA R01 AA010723	(PI: Sullivan)	03/19 – 08/21
Title: Cerebellar Structure and Function in Alcoholism		
Agency: National Institute of Health		
Role: Senior Research Scientist		
2020 HAI-AWS Cloud Credits Award	(PI: Pohl)	04/20 – 04/21
Title: Develop technologies advancing nonscientific discovery of disease-specific phenotypes		
Agency: Institute for Human-Centered Artificial Intelligence, Stanford		
Role: Principal Investigator		
NIH/NHLBI R01 HL127661	(MPI: Axel & Metaxas & Pohl)	04/15 – 03/20
Title: Innovative MRI-based Characterization of Cardiac Dyssynchrony		
Agency: National Institute of Health		
Role: Multiple Principal Investigator		
NIH/NIAAA U24 AA021697-07S1	(MPI: Pfefferbaum & Pohl)	07/18 – 06/19
Title: NCANDA Administrative Supplement for Clinical Readings and Analysis		
Agency: National Institute of Health		
Role: Multiple Principal Investigator		

NIH NIDA/NCI U24 DA041123	(PI: Dale)	09/15 – 12/19
Title: ABCD-USA Consortium: Data Analysis Center		
Agency: National Institute of Health		
Role: Multiple Principal Investigator of the Subcontract		
NIH/NIMH R43 MH119022	(PI: Chaudhary)	09/18 – 08/19
Title: MIQA: A Highly Scalable and Customizable Platform for Medical Image Quality Assessment		
Agency: National Institute of Health		
Role: Principal Investigator of the Subcontract		
Creative and Novel Ideas in HIV Research	(PI: Pohl)	06/14 – 11/17
Title: Creating Maps of 4D Brain Images to Unravel Dementia Heterogeneity of Aging HIV Population		
Agency: National Institute of Health (NIAID & OAR), International AIDS Society		
Role: Principal Investigator		
NIH/NIAAA/OD/NABIB U01 AA021697-04S1	(PI: Pohl)	07/15 – 06/17
Title: Supplement to N-CANDA: Data Analysis		
Agency: National Institute of Health		
Role: Principal Investigator		
NIH/NIAAA R01 AA012388	(MPI: Pfefferbaum & Sullivan)	06/13 – 01/16
Title: Neuroimaging of Connectivity in Alcoholism		
Agency: National Institute of Health		
Role: Co-investigator		
Translational Biomedical Imaging Center Pilot Grant	(PI: Pohl)	02/12 – 06/13
Title: Automatic 4D Analysis of Cardiac MR Scans		
Agency: Institute for Translational Medicine and Therapeutics		
Role: Principal Investigator		
NIH/NIA R01AG014971-10A1	(PI: Davatzikos)	09/11 – 06/13
Title: Computational Neuroanatomy of Aging and AD via Pattern Analysis		
Agency: National Institute of Health		
Role: Co-Investigator		
NIH/NIBIB R01 EB009234-01A1	(PI: Davatzikos)	07/10 – 06/13
Title: Computer Analysis of Brain Vascular Lesions in MRI: Evaluating Longitudinal Change		
Agency: National Institute of Health		
Role: Co-Investigator		
NIH/NCRR P41RR013218-12S1	(PI: Kikinis)	09/09 – 08/11
Title: NAC ARRA Supplement / Image Analysis of Personalized Medicine		
Agency: National Institute of Health		
Role: Principal Investigator of Subcontract		
NIH/NCRR P41 RR013218	(PI: Kikinis)	10/05 – 09/08
Title: Neuroimaging Analysis Center		
Agency: National Institute of Health		
Role: Co-Investigator		
Brain Science Foundation Grant	(PI: Pohl)	10/07 – 09/08
Title: Meningioma Tracking Project		
Agency: The Brain Science Foundation		
Role: Principal Investigator		
NIH/NIAAA R01 AA016748	(PI: Daunais)	04/07 – 06/10
Title: Measuring Alcohol and Stress Interactions with Structural and Perfusion MRI		
Agency: National Institute of Health		
Role: Investigator		
Brain Science Foundation Grant	(PI: Kikinis)	10/05 – 09/07
Title: Meningioma Tracking Project		
Agency: The Brain Science Foundation		
Role: Co-Investigator		

**MENTORING****PhD Thesis Advisor**

Favour Nerrise, Electrical Engineering, Stanford University	2023 – present
Yixin Wang, Biomedical Engineering, Stanford University	2023 – present
Tomas Mika Bosschieter, Computational & Mathematical Engineering, Stanford University	2023 – present
Jiahong Ouyang, Electrical Engineering, Stanford University	2020 – present
Dong Hye Ye, Bioengineering, University of Pennsylvania (graduated August 2013) Current Position: Assistant Professor, Georgia State University	2010 – 2013

**Chair of PhD Thesis Oral Exam**

Jinxiao Zhang, Department of Psychology, Stanford University	2023
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**PhD Thesis Reviewer**

Meva Himmetoglu, Department of Computer Science, ETH Zurich	2022 - present
Mengwei Ren, Department of Computer Science, New York University	2022 - 2023
Niharika Shimona D'Souza, Electrical and Computer Engineering, John Hopkins University	2021
Rowa Aljondi, Department of Medicine and Radiology, University of Melbourne	2018
Volker Gerhard Daum, Department of Computer Science, University of Erlangen-Nuermberg	2011

<b>Trainee Name</b>	<b>Level of Training</b>	<b>Current Position</b>	<b>Training Period</b>
Camila Gonzales	Postdoctoral Fellow	Postdoctoral Fellow, Stanford	2022 – present
Wei Peng	Postdoctoral Fellow	Postdoctoral Fellow, Stanford	2022 – present
Ehsan Adeli, Ph.D.	Postdoctoral Fellow	Clinical Assistant Professor, Stanford	2017 – present
Magdalini Paschali	Postdoctoral Fellow	Postdoctoral Fellow, Stanford	2022 – 2023
Qingyu Zhao, Ph.D.	Postdoctoral Fellow	Assistant Professor, Cornell University	2017 – 2023
Uran Ferizi, Ph.D.	Research Scientist	Albanian Ambassador to UK & Ireland	2020 – 2022
Nicolas Honnorat, Ph.D.	Research Scientist	Instructor, University of Texas Health Science Center at San Antonio	2018 – 2021
Dongjin Kwon, Ph.D.	Postdoctoral Fellow	Software Engineer, Google	2012 – 2018
Mahnaz Maddah, Ph.D.	Consultant	Managing Member, Dana Solutions	2017
Sang Hyun Park, Ph.D.	Postdoctoral Fellow	Assistant Professor, Daegu Gyeongbuk Institute of Science & Technology, South Korea	2016 – 2017
Nolan Nichols, Ph.D.	Postdoctoral Fellow	Bioinformatics Software Engineer, Genentech	2015 – 2016
Yong Zhang, Ph.D.	Postdoctoral Fellow	Data Scientist, Istuary Innovation Group	2014 – 2016
Elena Bernardis, Ph.D.	Postdoctoral Fellow	Assistant Research Professor, University of Pennsylvania	2012 – 2014
Dong Hye Ye, Ph.D.	Graduate Student	Associate Professor, Georgia State University	2010 – 2014
Birkan Tunc, Ph.D.	Postdoctoral Fellow	Research Assistant Professor, University of Pennsylvania	2012 – 2013
Yangming Ou, Ph.D.	Graduate Student	Associate Professor, Harvard Medical School	2011 – 2013
Bilwaj Gaonkar, Ph.D.	Graduate Student		2010 – 2013
Chunming Li, Ph.D.	Postdoctoral Fellow	Professor of Electrical Engineering, University of Electronic Science and Technology of China	2010 – 2012
Ender Konukoglu, Ph.D.	Graduate Student	Associate Professor, ETH Zurich	2007 – 2012



Ali Gooya, Ph.D.	Postdoctoral Fellow	Senior Lecturer, University of Glasgow	2010 – 2012
Yong Zhang, Ph.D.	Postdoctoral Fellow	Associate Professor, Weber State University	2010
Andrey Fedorov, Ph.D.	Postdoctoral Fellow	Associate Professor, Harvard Medical School	2008 – 2010
<b>Software Engineer</b>			
Joseph Dehoney	Research Data Analyst	Stanford University	2022 – present
James Klo	Senior Software Engineer	Senior Software Engineer, SRI International	2018 – present
Simon Podhajsky	Data Manager	Data Manager, SRI International	2018 – 2022
Ramon Quitales, MS	Software Engineer	Software Engineering Lead, Landed	2018 – 2019
Michael Hasak, BS	Senior Software Engineer	Senior Software Engineer, SRI International	2017 – 2018
Sara Benito, BS	Biomedical Software Engineer	Software Test Engineer, Heat Flow Inc.	2016 – 2017
Daniel Cuneo, BS	Research Associate II	ALS Control Systems Engineer, Lawrence Berkeley National Laboratory	2014
Andreas Schuh, Ph.D.	Software Engineer	Research Engineer, PhD Student, Imperial College London	2010 – 2012
Daniel Haehn, MS	Software Engineer	Assistant Professor, University of Massachusetts – Boston	2010 – 2011
Dominique Belhachemi, MS	Software Engineer	Software Engineer, Life Technologies Corporation	2010 – 2011
<b>Data Analyst</b>			
Stephanie Sassoon, PhD	Senior Clinical Research Scientist	Stanford	2023 – present
Sangeeta Mondal, BS	Data Scientist	Stanford	2019 – 2021
Lisa Jack, BS	Assistant Director	SRI International	2017 – 2020
<b>Research Assistant</b>			
Griffin Young		CS Master Student	2022
Vishal Mohanty		CS Master Student	2021 – 2022
Sudeep Narala		EE Master Student	2021
Chris Pondoc		CS Undergraduate Student	2020 – 2021
Eurim Choi, BS	CS Master Student	Frontend Engineer, TikTok	2020 – 2021
Jacqueline H. Yau, BS	CS Master Student	Machine Learning Engineer, Apple	2020
Eric Yang, BS	EE Master Student	Autonomous Driving Software Engineer, NVIDIA	2020
Jonathan Li	Coterm Student, CS	Software Engineer, Facebook	2019
<b>Student Intern</b>			
Felipe Godoy		Master Student, STAT, Stanford	2022 – present
Jocasta Manasseh-Lewis		Master Student, BE, Stanford	2021 – present
Tulika Jha		Master Student, EE, Stanford	2024 – present
Raymond Suo		Undergraduate, MATH, Stanford	2024 – present
Yanis Najy Miraoui		Master Student, STAT, Stanford	2023
Alex Thiesmeyer		Master Student, STAT, Stanford	2023
Yiran Fan		Master Student, STAT, Stanford	2023

Timothy Yao		Master Student, STAT, Stanford	2023
Brent Ju		Undergraduate Student, CS, Stanford	2023
Emily Wesel		Undergraduate Student, CS, Stanford	2023
Mary Fetter		Undergraduate Student, CS, Stanford	2023
Eric Frankel		Undergraduate Student, MATH, Stanford	2023
Mark Endo		Undergraduate Student, CS, Stanford	2022 – 2023
Ayush Singla		Undergraduate Student, CS, Stanford	2022 – 2023
Bhargav Dindukurthi		Master Student, MSE, Stanford	2022
Julian Quevedo		Undergraduate Student, CS, Stanford	2022
Navami Jain		Undergraduate Student, CS, Stanford	2022
Ibrahim Gulluk		PhD Student, EE, Stanford	2022
Nibha Akireddy		Master Student, EE, Stanford	2022
Megan Backus		Master Student, EE, Stanford	2022
Pankhuri Aggarwal		Master Student, DS, Stanford	2022
Naijing Guo		Master Student, BE, Stanford	2022
Hui Lan		Master Student, CME, Stanford	2022
Shunyao Xu		Master Student, EE, Stanford	2022
Wenna Qin		Master Student, STAT, Stanford	2022
Anthony Vento		Master Student, EE, Stanford	2021 – 2022
Yueting Li		Master Student, EE, Stanford	2021 – 2022
Edwin Pan		Master Student, EE, Stanford	2021 – 2022
Kevin Wang		Master Student, CS, Stanford	2021 – 2022
Itamar Terem		PhD Student, EE, Stanford	2021
Meng-Jin Lin		Master Student, EE, Stanford	2021
Joseph Pagadora	Master Student, CS	Master Student, Statistic, Stanford	2021
Rain Juhl	Master Student, Stat	Undergraduate Student, CS, Stanford	2021
Daniel Do, BS	Master Student, EE	Software Engineer, Amazon	2021
Anastasia V. Butskova	Coterm Student, CS	Senior Data Scientist, Natara	2021
Zucks Liu, BS	Master Student, ME	PhD Student, University of Washington	2020 – 2021
Mandy Lu	Master Student, CS	Software Engineer, Google	2020 – 2021
Jiequan Zhang, BS	Master Student, BE	Chief Operating Officer, WeAsk	2020 – 2021
Soham Uday Gadgil, BS	Master Student, Stat	Software Engineer, Microsoft	2020
Rafi Ayub, BS	Master Student, CME	Software Engineer, Microsoft	2020
Yuan Liu, BS			2020
Rui Yan, BS		PhD Student, Stanford	2020
<b>Visiting Scholar</b>			
Myeongkyun Kang		PhD Student, Daegu Gyeongbuk Institute of Science & Technology	2023
Soopil Kim		PhD Student, Daegu Gyeongbuk Institute of Science & Technology	2023
Lars Hauptmann		Master Student, ETH Zurich	2023
Guoying Zhao		Professor, University of Oulu	2022 – 2023
Magdalini Paschali		PhD Student, Technische Universität München	2020 – 2021
Jungmin Yoon, BS		Medical Doctor Candidate, University of British Columbia	2020 – 2021
Mohammad Eslami		Postdoctoral Fellow, Florida International University	2020
Tuo Leng, PhD		Associate Professor, Shanghai Univ.	2018 – 2019

**National GRANTS AWARDED TO MENTEES**

Listed are awards where I serve as mentor

- NIH/NIAAA K99/R00 AA028840 (PI: Zhao) 08/21 – 07/26  
 Title: Longitudinal Analysis of Diffusion Tensor Imaging to Discover Adolescent Alcohol Use Effect  
 Agency: National Institute of Health  
 Role: Mentor
- NARSAD Young Investigator (PI:Zhao) 01/24 – 01/26  
 Title: Neural and behavioral risk factors to forecast heavy drinking in young adulthood: Role of sex and adverse childhood experiences  
 Agency: Brain & Behavior Research Foundation  
 Role: Mentor
- NIH/NIAAA F32 AA026762 (PI: Adeli) 07/18 – 11/19  
 Title: Identifying Patterns of Cognitive, Motor, and Brain Structural Abnormalities Differentiating Alcohol Use Disorder With and Without HIV Infection Comorbidity  
 Agency: National Institute of Health  
 Role: Mentor

**HONORS AWARDED TO MENTEES**

Listed are awards by mentees that were given by Stanford or are based on joined publications

- Camila Pathways to Neurosciences, 2023  
 Gonzales Wu Tsai Neurosciences Institute, Stanford
- Ehsan Adeli Educational Excellence Award, *Department of Psychiatry and Behavioral Sciences, Stanford University* 2023
- Qingyu Zhao Advancing Science Award, 2022  
*Department of Psychiatry and Behavioral Sciences, Stanford University*
- Tomas Best Course Assistant Award 2023  
 Bosschieter *Institute for Computational and Mathematical Engineering, Stanford University*
- Favour Nerrise Student Travel Award 2023  
*Medical Image Computing and Computer-Assisted Intervention (MICCAI)*
- Ehsan Adeli Faculty Professional & Leadership Development Award, 2022  
*Department of Psychiatry and Behavioral Sciences, Stanford University*
- Qingyu Zhao Innovator Grant Award 2022  
*Department of Psychiatry and Behavioral Sciences, Stanford University*
- Mark Eric Endo Special Recognition Award for Outstanding Psychiatric Research 2022  
*Department of Psychiatry and Behavioral Sciences, Stanford University*
- Jiahong Ouyang 1 of 15 students short listed for the Young Scientist Award 2021  
*Medical Image Computing and Computer Assisted Intervention (1630 submissions)*
- Jiahong Ouyang Student Travel Award 2021  
*Medical Image Computing and Computer-Assisted Intervention (MICCAI)*
- Ehsan Adeli Innovator Grant Award 2021  
*Department of Psychiatry and Behavioral Sciences, Stanford University*
- Jiahong Ouyang Student Travel Award 2020  
*Medical Image Computing and Computer-Assisted Intervention (MICCAI)*
- Ehsan Adeli Stanford ADRC Fellowship Award 2021  
*Stanford Alzheimer's Disease Research Center*
- Ehsan Adeli Young Scientist Travel Award 2017  
*Medical Image Computing and Computer Assisted Intervention (MICCAI)*
- Dong Hye Ye Student Travel Award 2012  
*IEEE International Symposium on Biomedical Imaging (ISBI)*
- Dong Hye Ye Student Travel Award 2011  
*Pattern Recognition in NeuroImaging (PRNI)*

**ORAL PRESENTATIONS BY MENTEES AT NATIONAL AND INTERNATIONAL MEETINGS**

Listed are talks by mentees based on joined publications

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| Automatic Neural Network Learning for Human Behavior Understanding<br>Finnish AI Dissertation Award 2022<br><i>Oral presentation by awardee W. Peng</i>   | Nov, 2023     |
| An Explainable Geometric-Weighted Graph Attention Network for Identifying Functional Networks Associated with Gait Impairment<br>International Conference on Medical Image Computing and Computer-Assisted Intervention, Vancouver, Canada<br><i>Oral presentation by first author F. Nerrise</i> | Oct, 2023     |
| Bridging the Gap between Deep Learning and Hypothesis-Driven Analysis via Permutation Testing,<br>Predictive Intelligence in Medicine, Singapore<br><i>Oral presentation by first author M. Paschali</i>  | Sept, 2022    |
| Multiple Instance Neuroimage Transformer<br>Predictive Intelligence in Medicine, Singapore<br><i>Oral presentation by first author A. Singla</i>  | Sept, 2022    |
| Deep Learning Identifies Effects of Alcohol Drinking on the Early Adult Brain<br><i>45th Annual Research Society on Alcoholism (RSA) Scientific Meeting</i><br>Orlando, Florida<br>Oral Presentation by Q. Zhao   | June, 2022    |
| Self-Supervised Longitudinal Neighbourhood Embedding<br><i>International Conference on Medical Image Computing and Computer-Assisted Intervention, Strasbourg, France</i><br><i>Oral presentation by first author J. Ouyang</i>   | Sept, 2021    |
| Longitudinal Correlation Analysis for Decoding Multi-Modal Brain Development<br><i>International Conference on Medical Image Computing and Computer-Assisted Intervention, Strasbourg, France</i><br><i>Oral presentation by first author Q. Zhao</i>   | Sept, 2021    |
| Adversarial Bayesian Optimization for Quantifying Motion Artifact within MRI,<br><i>4th Workshop on Predictive Intelligence in Medicine</i><br><i>2021 MICCAI Workshop, Strasbourg, France</i><br><i>Oral presentation by last author Q. Zhao</i>   | Sept, 2021    |
| Going Beyond Saliency Maps: Training Deep Models to Interpret Deep Models<br><i>Information Processing in Medical Imaging, Denmark</i><br><i>Oral presentation by first author Z. Liu</i>   | June, 2021    |
| Representation Disentanglement for Multi-modal MR Analysis,<br><i>Information Processing in Medical Imaging, Denmark</i><br><i>Oral presentation by first author J. Ouyang</i>  | October, 2020 |
| Spatio-Temporal Graph Convolution for Functional MRI Analysis<br><i>International Conference on Medical Image Computing and Computer-Assisted Intervention, Lima, Peru</i><br><i>Oral presentation by first author S. Gadgil</i>  | October, 2020 |
| Vision-based Estimation of MDS-UPDRS Gait Scores for Assessing Parkinson's Disease Motor Severity<br><i>International Conference on Medical Image Computing and Computer-Assisted Intervention, Lima, Peru</i><br><i>Oral presentation by first author M. Lu</i>                                  | October, 2020 |
| Inpainting Cropped Diffusion MRI using Deep Generative Models<br><i>3rd Workshop on Predictive Intelligence in Medicine</i><br><i>2020 MICCAI Workshop, Lima, Peru</i><br><i>Oral presentation by second author Q. Zhao</i>   | October, 2020 |

- Inpainting Cropped Diffusion MRI using Deep Generative Models  
3<sup>rd</sup> Workshop on Predictive Intelligence in Medicine  
*2020 MICCAI Workshop, Lima, Peru*  
*Oral presentation by first author N Honnorat* October, 2020
- Data Augmentation based on Substituting Regional MRI Volume Scores  
*Large-scale Annotation of Biomedical data and Expert Label Synthesis*  
*2019 MICCAI Workshop, Shenzhen, China*  
*Oral presentation by first author T. Leng* October, 2019
- Covariance Shrinkage for Dynamic Functional Connectivity  
*3<sup>rd</sup> Workshop on Connectomics in NeuroImaging*  
*2019 MICCAI Workshop, Shenzhen, China*  
*Oral presentation by co-author Q Zhao* October, 2019
- Confounder-Aware Visualization of ConvNets  
*International Workshop on Machine Learning and Medical Imaging*  
*2019 MICCAI Workshop, Shenzhen, China*  
*Oral presentation by co-author E Adeli* October, 2019
- Multi-Label Transduction for Identifying Disease Comorbidity Patterns  
*International Conference on Medical Image Computing and Computer Assisted Intervention, Granada, Spain*  
*Oral presentation by first author E. Adeli* September, 2018
- End-To-End Alzheimer's Disease Diagnosis and Biomarker Identification  
*International Workshop on Machine Learning in Medical Imaging,*  
*2018 MICCAI Workshop, Granada, Spain*  
*Oral presentation by last author E. Adeli* September, 2018
- Multinomial Probabilistic Fiber Representation for Connectivity Driven Clustering  
*Information Processing in Medical Imaging, Asilomar, California*  
*Oral presentation by first author B. Tunc* June, 2013
- Validation of DRAMMS among 12 Popular Methods in Cross-Subject Cardiac MRI Registration  
*Workshop on Biomedical Image Registration, Nashville, Tennessee*  
*Oral presentation by first author Y. Ou* July, 2012
- Prediction of MCI to AD conversion via structural MRI using manifold learning and semi-supervised pattern classification  
*IEEE Int. Workshop on Pattern Recognition in NeuroImaging, Seoul, S. Korea*  
*Oral presentation by first author D.H. Ye* May 2011
- Morphological Classification: Application to cardiac MRI of Tetralogy of Fallot  
*Int. Conference on Functional Imaging and Modeling of the Heart, New York, NY*  
*Oral presentation by first author D.H. Ye* May 2011
- Monitoring slowly evolving tumors  
*IEEE International Symposium on Biomedical Imaging, Paris, France*  
*Oral presentation by first author E. Konukoglu* April, 2008

### **INVITED ORAL PRESENTATIONS AT NATIONAL AND INTERNATIONAL VENUES**

- Machine Learning Reveals Alcohol Related Disruption in the Neurocircuitry of Individuals  
*46<sup>th</sup> Annual Research Society on Alcoholism Scientific Meeting, Bellevue, WA* June, 2023
- Data-Driven Discovery of HIV Phenotypes across MRI Data Sets  
*NIMH Biotypes of CNS Complications in People Living with HIV Meeting* October, 2021
- Advancing Neuroscientific Discovery via Bias-Resilient Neural Networks  
*Asilomar Conference on Signals, Systems, and Computers, Asilomar, California* November, 2020
- Modelling Confounding Effects within End-to-End Learning  
*Machine Learning in Medical Imaging, 2020 MICCAI Workshop, Lima, Peru* October, 2020

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Identifying Alcohol Specific Brain Phenotypes via Machine Learning Technology <i>4th International Conference on Applications of Neuroimaging to Alcoholism (ICANA-4), New Haven, Connecticut</i>	July, 2019
Identify Brain Patterns Predicting Diagnosis <i>Predictive Intelligence in Medicine, 2018 MICCAI Workshop, Granada, Spain</i>	September, 2018
Computational Science for Identifying Biomedical Phenotypes <i>2017 Intelligence in Medicine Summit, Stanford, California</i>	August, 2017
Public Access to the National Consortium on Alcohol & Neurodevelopment in Adolescence (NCANDA) Data <i>40<sup>th</sup> Annual Research Society on Alcoholism Scientific Meeting, Denver, Colorado</i>	June, 2017
Extracting Patterns of Morphometry Distinguishing HIV Associated Neurodegeneration from Mild Cognitive Impairment <i>Creative and Novel Ideas in HIV Research NIH Workshop, Bethesda, Maryland</i>	August, 2016
Classifying MRIs based on Group Cardinality Constrained Solutions <i>Workshop on Medical Computer Vision at the IEEE Conference on Computer Vision and Pattern Recognition, Las Vegas, Nevada</i>	June, 2016
Creating Maps of 4D Brain Images to Unravel Dementia Heterogeneity of Aging HIV Population: Findings <i>Creative and Novel Ideas in HIV Research Workshop, Vancouver, Canada</i>	July, 2015
Age-Related Differences in Adolescent Brain Microstructure: Initial Findings from National Consortium on Alcohol & Neurodevelopment in Adolescence <i>38th Annual Research Society on Alcoholism Scientific Meeting, San Antonio, TX</i>	June, 2015
Logarithm of Odds for Medical Images Analysis, <i>Joint Statistical Meetings, Boston, Massachusetts</i>	August, 2014
Creating Maps of 4D Brain Images to Unravel Dementia Heterogeneity of Aging HIV Population: First Findings <i>Creative and Novel Ideas in HIV Research Workshop, Melbourne, Australia</i>	July, 2014
Medical Image Based Biomarkers for Disease Detection <i>Janelia Conference: BioImage Informatics II, Loudoun County, Virginia</i>	September, 2011
Image Segmentation: EMSegmenter <i>From MICCAI Algorithms to Clinical Translational Tools: The NA-MIC Platform, Beijing, China</i>	October, 2010
Slicer Annotation <i>National Alliance for Medical Image Computing All Hands Meeting, Salt Lake City, Utah</i>	January, 2010
Automated Tumor Growth Detection <i>International Congress on Meningiomas and Cerebral Venous System, Boston, Massachusetts</i>	September, 2008
Active Mean Fields: Solving the Mean Field Approximation in the Level Set Framework <i>Information Processing in Medical Imaging, Kerkrade, Netherlands</i>	June, 2007
EM Segmentation Tutorial <i>National Alliance for Medical Image Computing All Hands Meeting, Salt Lake City, Utah</i>	January, 2007
Logarithm Odds Maps for Shape Representation <i>International Conference on Medical Image Computing and Computer Assisted Intervention, Copenhagen, Denmark</i>	October, 2006
EMAtlasBrainClassifier <i>National Alliance for Medical Image Computing All Hands Meeting, Salt Lake City</i>	January, 2006
Anatomical Guided Segmentation with Non-Stationary Tissue Class Distributions in an Expectation-Maximization Framework <i>IEEE International Symposium on Biomedical Imaging, Arlington, Virginia</i>	April, 2004

- Incorporating Non-Rigid Registration into Expectation Maximization Algorithm to Segment MR Images October, 2002  
*International Conference on Medical Image Computing and Computer Assisted Intervention, Tokyo, Japan*
- Batch-Tracing Report October, 2000  
*The International Society for Pharmaceutical Engineering, Arlington, Virginia*

## **PEER-REVIEWED FULL-LENGTH PUBLICATIONS (N=158)**

158 peer-reviewed publications resulting in over 5750 citations (h-index=39) according to Google Scholar. Publications listed are full-length, peer-reviewed articles.

### **Original Research Indexed in PubMed (N=151)**

1. Pfefferbaum A, Sullivan EV, **Pohl KM\***, Bischoff-Grethe A, Stoner SA, Moore EM, Riley EP: Brain Volume Deficits Persist in Fetal Alcohol Spectrum Disorders despite Normal Cortical Growth, JAMA Network Open, Accepted  
*\* Conducted data analysis and provided critical revision of manuscript for important intellectual content*
2. Pfefferbaum A, Zhao Q., **Pohl KM\***, Sassoon SA, Zahr NM, Sullivan EV: Age-Accelerated Increase of White Matter Hyperintensity Volumes is Exacerbated by Heavy Alcohol Use in People Living with HIV, Biological Psychiatry, In press.  
*\* Conducted data analysis and provided critical revision of manuscript for important intellectual content*
3. Kim S, An S, Chikontwe P, Kang M, Adeli E, **Pohl KM\***, Park, S: Few Shot Part Segmentation Reveals Compositional Logic for Industrial Anomaly Detection, AAAI Conference on Artificial Intelligence 2024, In Press.  
*\* Provided critical revision of manuscript for important intellectual content*
4. Kang M, Kim S, Jin KH, Adeli E, **Pohl KM\***, Park SH: FedNN: Federated Learning on Concept Drift Data using Weight and Adaptive Group Normalizations, Pattern Recognition, 149, 110230, 2024.  
*\* Provided critical revision of manuscript for important intellectual content*
5. Sassoon S, Farma R, **Pohl KM\***, Pfefferbaum A, Sullivan EV: Frontal cortical volume deficits as enduring evidence of childhood abuse in community adults with AUD and HIV infection comorbidity, Neurobiology of Stress, 29, 100608, 2024  
*\* Conducted data analysis and provided critical revision of manuscript for important intellectual content*
6. Ottino-González J, Cupertino RB, Cao Z, Hahn S, Pancholi D, Albaugh M, Brumback T, Baker FC, Brown SA, Clark DB, de Zambotti M, Goldston DB, Luna B, Nagel BJ, Nooner KB, **Pohl KM\***, Tapert SF, Thompson WK, Jernigan TL, Conrod P, Mackey S, Garava H: Brain Structural Covariance Network Features are Robust Markers of Early Heavy Alcohol Use, Addiction, 119(1), pp 113–124, 2024.  
*\* Provided critical revision of manuscript for important intellectual content*
7. Pfefferbaum A, Sullivan EV, **Pohl KM\***, Bischoff-Grethe A, Stoner SA, Moore EM, Riley EP: Brain Volume in Fetal Alcohol Spectrum Disorders Over a 20-Year Span, JAMA Network Open, 6(11):e2343618, 2023  
*\* Conducted data analysis and provided critical revision of manuscript for important intellectual content*
8. Ouyang J, Zhao Q, Adeli E, Peng W, Zaharchuk G, **Pohl KM**: LSOR: Longitudinally-Consistent Self-Organized Representation Learning, Medical Image Computing and Computer Assisted Intervention, Lecture Notes in Computer Science, 14220, pp 279–289, 2023.
9. Peng W, Adeli E, Bosschieter T, Park SH, Zhao Q, **Pohl KM**: Generating Realistic Brain MRIs via a Conditional Diffusion Probabilistic Model, Medical Image Computing and Computer Assisted Intervention, Lecture Notes in Computer Science, 14227, pp 14–24, 2023.
10. Wang Y, Peng W, Tapert SF, Zhao Q, **Pohl KM**: Imputing Brain Measurements Across Data Sets via Graph Neural Networks, Predictive Intelligence in Medicine, Springer, Lecture Notes in Computer Science, 14277, pp 172–183, 2023.
11. Kang M, Chikontwe P, Soopil K, Jin KH, Adeli E, **Pohl KM\***, Park SH: One-shot Federated Learning on Medical Data using Knowledge Distillation with Image Synthesis and Client Model Adaptation, Medical Image Computing and Computer Assisted Intervention, Lecture Notes in Computer Science, 14221, pp. 521–531, 2023.  
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12. Nerrise F, Zhao Q, Poston K, **Pohl KM\***, Adeli E: An Explainable Geometric-Weighted Graph Attention Network for Identifying Functional Networks Associated with Gait Impairment, *Medical Image Computing and Computer Assisted Intervention*, Lecture Notes in Computer Science, 14221, pp 723–733, 2023.  
\* *Provided critical revision of manuscript for important intellectual content*
13. Piekarski J, Zahr NM, Zhao Q, Ferizi U, **Pohl KM\***, Sullivan EV, Pfefferbaum A: White matter microstructural integrity continues to develop from adolescence to young adulthood in mice and humans: Same phenotype, different mechanism, *Neuroimage: Reports*, 3(3), 100179, 2023  
\* *Conducted data analysis and provided critical revision of manuscript for important intellectual content*
14. Alzueta E, Podhajsky S, Zhao Q, Tapert SF, Thompson WK, de Zambotti M, Yuksel D, Kiss O, Wang R, Volpe L, Prouty D, Colrain IM, Clark DB, Goldston DB, Nooner KB, De Bellis MD, Brown SA, Nagel BJ, Pfefferbaum A, Sullivan EV, Baker FC, **Pohl KM**: Risk for Depression Tripled during COVID-19 Pandemic in Emerging Adults Followed for the Last 8 Years, *Psychological Medicine*, 53(5), pp. 2156-63, 2023. doi:10.1017/S0033291721004062.
15. Ferizi U, Müller-Oehring EM, Peterson ET, **Pohl KM**: The distortions of the free water model for diffusion MRI data when assuming single compartment relaxometry and proton density, *Physics in Medicine and Biology*, 68, 05NT01, 2023.
16. Bolzenius J, Sacdalan C, Ndhlovu L, Sailasuta N, Trautmann L, Tipsuk S, Crowell T, Suttichom D, Colby D, Phanuphak N, Chan P, Premeaux T, Kroon E, Vasani S, Hsu D, Valcour V, Ananworanich J, Robb M, Ake J, **Pohl KM\***, Sriplienchan S, Spudich S, Paul R: Brain Volumetrics Differ by Fiebig Stage in Acute HIV Infection, *AIDS*, 37(6), pp. 861-9, 2023.  
\* *Provided critical revision of manuscript for important intellectual content*
17. Sullivan EV, Zahr NM, Sassoos SA, **Pohl, KM\***, Pfefferbaum A: Postural instability in HIV infection: relation to central and peripheral nervous system markers, *AIDS*, 37(7), pp 1085-96, 2023.  
\* *Conducted data analysis and provided critical revision of manuscript for important intellectual content*
18. Fama R, Müller-Oehring EM, Levine TF, Sullivan EV, Sassoos SA, Asok P, Brontë-Stewart HM, Poston KL, **Pohl KM\***, Pfefferbaum A, Schulte T: Episodic memory deficit in HIV infection: common phenotype with Parkinson's disease, different neural substrates. *Brain Structure and Function*, 228(3-4), pp. 845-58, 2023. <https://doi.org/10.1007/s00429-023-02626-x>  
\* *Conducted data analysis and provided critical revision of manuscript for important intellectual content*
19. Pfefferbaum A, Sullivan EV, Zahr NM, **Pohl KM\***, Saranathan M: Multi-atlas thalamic nuclei segmentation on standard T1-weighted MRI with application to normal aging, *Human Brain Mapping*, 1–17, <https://doi.org/10.1002/hbm.26088>, 2022.  
\* *Provided critical revision of manuscript for important intellectual content*
20. Honnorat N, Fama R, Müller-Oehring EM, Pfefferbaum A, Sullivan EV, **Pohl KM**: Alcohol Use Disorder and its Comorbidity with HIV Infection Disrupt Anterior Cingulate Cortex Functional Connectivity, *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 7(11), pp. 1127-36, 2022.
21. Ouyang J, Zhao Q, Adeli E, Sullivan EV, Pfefferbaum A, Zaharchuk G, **Pohl KM**: Self-supervised Learning of Neighborhood Embedding for Longitudinal MRI, *Medical Image Analysis*, Vol 82, 102571, 2022.
22. Ouyang J, Zhao Q, Adeli E, Zaharchuk G, **Pohl KM**: Disentangling Normal Aging from Severity of Disease via Weak Supervision on Longitudinal MRI, *IEEE Transactions on Medical Imaging*, 41(10), pp. 2558 -69, 2022.
23. Paschali M, Zhao Q, Adeli E, **Pohl KM**: Bridging the Gap between Deep Learning and Hypothesis-Driven Analysis via Permutation Testing, *Predictive Intelligence in Medicine*, Springer, Lecture Notes in Computer Science, 13564, pp 13–23, 2022.
24. Li Y, Wei Q, Adeli E, **Pohl KM\***, Zhao Q: Joint Graph Convolution for Analyzing Brain Structural and Functional Connectome, *Medical Image Computing and Computer Assisted Intervention*, Springer-Verlag, Lecture Notes in Computer Science, 13431, pp 231–40, 2022.  
\* *Conducted data analysis and interpretation*
25. Endo M, Poston K, Sullivan E, Fei-Fei L, **Pohl KM\***, Adeli E: GaitForeMer: Self-Supervised Pre-Training of Transformers via Human Motion Forecasting for Few-Shot Gait Impairment Severity Estimation, *Medical Image Computing and Computer Assisted Intervention*, Springer-Verlag, Lecture Notes in Computer Science, 13438, pp 130–39, 2022.  
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26. Singla A, Zhao Q, Do DK, Zhou Y, **Pohl KM\***, Adeli E: Multiple Instance Neuroimage Transformer, *Predictive Intelligence in Medicine*, Springer, Lecture Notes in Computer Science, 13564, pp 36–48, 2022.  
\* *Provided critical revision of manuscript for important intellectual content*
27. Vento A, Zhao Q, Paul R, **Pohl KM\***, Adeli E: A Penalty Approach for Normalizing Feature Distributions to Build Confounder-Free Models, *Medical Image Computing and Computer Assisted Intervention*, Springer-Verlag, Lecture Notes in Computer Science, 13433, pp 387–97, 2022  
\* *Provided critical revision of manuscript for important intellectual content*
28. Sullivan EV, Thompson WK, Brumback T, Prouty D, Tapert SF, Brown SA, De Bellis MD, Nooner KB, Baker FC, Colrain IM, Clark DB, Nagel BJ, **Pohl KM\***, Pfefferbaum A: Prior Test Experience Confounds Longitudinal Tracking of Adolescent Cognitive and Motor Development, *BMC Medical Research Methodology*, 22:177, 2022.  
\* *Conducted data analysis and interpretation*
29. Paschali M, Kiss O, Zhao Q, Adeli E, Podhajsky S, Müller-Oehring EM, Gotlib IH, **Pohl KM\***, Baker FC: Detecting Negative Valence Symptoms in Adolescents based on Longitudinal Self-Reports and Behavioral Assessments, *Journal of Affective Disorders*, vol 312, pp 30-38, 2022  
\* *Corresponding author*
30. Pelham WE, Yuksel D, Baker FC, Tapert SF, **Pohl KM\***, Thompson, WK, Podhajsky S, Reuter C, Zhao Q, Ebersson-Shumate SC, Clark DB, Goldston DB, Nagel BJ, Nooner KB, Brown SA: Did the acute impact of the COVID-19 pandemic on drinking or nicotine use persist? Evidence from a cohort of emerging adults followed for up to nine years. *Addictive Behaviors*, 131, 107313, 2022.  
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31. Infante MA, Ebersson SC, Zhang Y, Brumback T, Brown SA, Colrain IM, Baker FC, Clark DB, De Bellis M, Goldston D, Nagel BJ, Nooner KB, Zhao Q, **Pohl KM\***, Sullivan EV, Pfefferbaum A, Tapert SF, Thompson WK: Adolescent binge drinking is associated with accelerated decline of gray matter volume, *Cerebral Cortex*, 32(12), pp. 2611-20, 2022.  
\* *Conducted data analysis and interpretation*
32. Zhao Q, Wang K, Kiss O, Yuksel D, De Zambotti M, Clark DB, Goldston D, Nooner KB, Brown SA, Tapert SF, Thompson WK, Nagel BJ, Pfefferbaum A, Sullivan EV, **Pohl KM\***, Baker FC: Earlier Bedtime and Effective Coping Skills Predict a Return to Low-Risk of Depression in Young Adults during the COVID-19 Pandemic, *International Journal of Environmental Research and Public Health*, 19(16), 10300, 2022.  
\* *Corresponding author*
33. Kiss O, Alzueta E, Yuksel D, **Pohl KM\***, de Zambotti M, Müller-Oehring EM, Prouty D, Durley I, Pelham III WE, McCabe JC, Gonzalez MR, Brown SA, Wade NE, Marshall AT, Sowell ER, Breslin FJ, Lisdahl KM, Dick AS, Sheth CS, McCandliss BD, Guillaume MJ, Van Rinsveld VA, Dowling GJ, Tapert SF, Baker FC: The pandemic's toll on young adolescents: Prevention and intervention targets to preserve their mental health, *Journal of Adolescent Health*, 70(3), pp. 387-395, 2022.  
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34. Lannoy S, Pfefferbaum A, Le Berre A-P, Thompson WT, Brumback T, Schulte T, **Pohl KM\***, De Bellis MD, Nooner KB, Baker FC, Prouty D, Colrain IM, Nagel BJ, Brown SA, Clark DB, Tapert SF, Sullivan EV, Müller-Oehring EM: Growth trajectories of cognitive and motor control in adolescence: How much is development and how much is practice?, *Neuropsychology*, 36(1), pp 44-54, 2022.  
\* *Conducted data analysis and interpretation*
35. Zhang J, Zhao Q, Adeli E, Pfefferbaum A, Sullivan EV, Paul R, Valcour V, **Pohl KM**: Multi-Label, Multi-Domain Learning Identifies Compounding Effects of HIV and Cognitive Impairment, *Medical Image Analysis*, vol 75, 102246, 2022.
36. Fama R, Le Berre A-P, Sassoon S, Zahr NM, **Pohl KM\***, Pfefferbaum A, Sullivan EV: Memory Impairment in Alcohol Use Disorder is Associated with Regional Frontal Brain Volumes, *Drug and Alcohol Dependence*, Volume 228, 109058, 2021.  
\* *Conducted data analysis and interpretation*
37. Zhao Q, Adeli E, **Pohl KM**: Longitudinal Correlation Analysis for Decoding Multi-Modal Brain Development, *Medical Image Computing and Computer-Assisted Intervention*, Springer-Verlag, Lecture Notes in Computer Science, vol 12907, pp 400-409, 2021.

38. Ouyang J, Zhao Q, Adeli E, Sullivan EV, Pfefferbaum A, Zaharchuk G, **Pohl KM**: Self-Supervised Longitudinal Neighbourhood Embedding, *Medical Image Computing and Computer-Assisted Intervention*, Springer-Verlag, Lecture Notes in Computer Science, vol 12902, pp 80-89, 2021.
39. Butskova A, Juhl R, Zukic D, Chaudhary A, **Pohl KM\***, Zhao Q, Adversarial Bayesian Optimization for Quantifying Motion Artifact within MRI, *PRedictive Intelligence in MEDicine (PRIME)*, Springer-Verlag, Lecture Notes in Computer Science, vol 12928, pp 83-92, 2021.  
\* Conducted data analysis and interpretation
40. Lu M, Zhao Q, Poston KL, Sullivan EV, Pfefferbaum A, Shahid M, Katz M, Kouhsari LM, Schulman K, Milstein A, Niebles JC, Henderson V, **Pohl KM\***, Li FF, Adeli E: Quantifying Parkinson's Disease Motor Severity Under Uncertainty Using MDS-UPDRS Videos, *Medical Image Analysis*, vol 73, 102179, 2021.  
\* Conducted interpretation
41. Lu M, Zhao Q, Zhang J, **Pohl KM\***, Li FF, Niebles JC, Adeli E: Metadata Normalization, *Computer Vision and Pattern Recognition*, pp. 10917-10927, 2021.  
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42. Liu Z, Adeli E, **Pohl KM\***, Zhao Q: Going Beyond Saliency Maps: Training Deep Models to Interpret Deep Models, *Information Processing in Medical Imaging*, Lecture Notes in Computer Science, vol 12729, pp. 71-82, 2021.  
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43. Ouyang J, Adeli E, **Pohl KM\***, Zhao Q, Zaharchuk G: Representation Disentanglement for Multi-modal MR Analysis, *Information Processing in Medical Imaging*, Lecture Notes in Computer Science, vol 12729, pp. 321-333, 2021.  
\* Conducted data analysis and interpretation
44. Zhao Q, Sullivan EV, Müller-Oehring E, Honnorat N, Adeli E, Podhajsky S, Baker FC, Colrain IM, Prouty D, Tapert SF, Brown SA, Meloy MJ, Brumback T, Nagel BJ, Morales AJ, Clark DB, Luna B, De Bellis MD, Nooner KB, Voyvodic JT, Pfefferbaum A, **Pohl KM**: Adolescent Alcohol Use Disrupts Functional Neurodevelopment in Sensation Seeking Girls, *Addiction Biology*, 26(2), e12914, 2021.
45. Zahr NM, **Pohl KM\***, Kwong A, Sullivan EV, Pfefferbaum A: Preliminary Evidence for a Relationship between Elevated Plasma TNF $\alpha$  and Smaller Subcortical White Matter Volume in HCV Infection Irrespective of HIV or AUD Comorbidity, *International Journal of Molecular Sciences*, 22(9), 4953, 2021.  
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46. Zhao Q, Sullivan EV, Honnorat N, Adeli E, Podhajsky S, De Bellis MD, Voyvodic J, Nooner KB, Baker FC, Colrain IM, Tapert SF, Brown SA, Thompson WK, Nagel BJ, Clark DB, Pfefferbaum A, **Pohl KM**: Association of Heavy Drinking with Deviant Fiber Tract Development in Frontal Brain Systems in Adolescents, *JAMA Psychiatry*, 78(4), pp. 407 – 415, 2021.
47. Zhao Q, Liu Z, Adeli E, **Pohl KM**: Longitudinal Self-Supervised Learning, *Medical Image Analysis*, Volume 71, 102051, 2021.
48. Ouyang J, Zhao Q, Sullivan EV, Pfefferbaum A, Tapert SF, Adeli E, **Pohl KM**: Longitudinal Pooling & Consistency Regularization to Model Disease Progression from MRIs, *IEEE Journal of Biomedical and Health Informatics*, 25(6), pp. 2082-2092, 2021.
49. Sullivan EV, Zhao Q, **Pohl KM\***, Zahr NM, Pfefferbaum A: Attenuated Cerebral Blood Flow in Frontolimbic and Insular Cortices in Alcohol Use Disorder: Relation to Working Memory, *Journal of Psychiatric Research*, 136, pp. 140 -148, 2021.  
\* Conducted data analysis and interpretation
50. Zahr NM, **Pohl KM\***, Sullivan EV, Pfefferbaum A: Age Differences in Brain Structural and Metabolic Responses to Binge Ethanol Exposure in Fisher 344 Rats, *Neuropharmacology*, 46(2), pp. 368-379, 2021.  
\* Conducted data analysis and interpretation
51. Adeli E, Zhao Q, Pfefferbaum A, Sullivan EV, Li FF, Niebles JC, **Pohl KM**: Representation Learning with Statistical Independence to Mitigate Bias, *IEEE/CVF Winter Conference on Applications of Computer Vision*, pp. 2513-2523, 2021.
52. Honnorat N, Saranatha M, Sullivan EV, Pfefferbaum A, **Pohl KM**, Zahr NM: Performance ramifications of abnormal functional connectivity of ventral posterior lateral thalamus with cerebellum in abstinent individuals with Alcohol Use Disorder, *Drug and Alcohol Dependence*, Volume 220, 108509, 2021  
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53. Zhao Q, **Pohl KM\***, Sullivan EV, Pfefferbaum A, Zahr NM: Jacobian mapping reveals converging substrates of disruption and repair in response to ethanol exposure and abstinence in two strains of rats, *Alcoholism: Clinical and Experimental Research*, vol 45, pp. 92-104, 2021.  
\* Conducted data analysis and interpretation
54. Zhao Q, Adeli E, **Pohl KM**: Training Confounder-Free Deep Learning Models for Medical Applications, *Nature Communications*, 11, 6010, 2020.
55. Adeli, E, Zhao Q, Zahr NM, Goldstone A, Pfefferbaum A, Sullivan EV, **Pohl KM**: Deep Learning Identifies Morphological Determinants of Sex Differences in the Pre-Adolescent Brain, *NeuroImage*, 223, 117293, 2020.
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\* Conducted data analysis and interpretation
57. Gadgil S, Zhao Q, Adeli E, Pfefferbaum A, Sullivan EV, **Pohl KM**: Spatio-Temporal Graph Convolution for Resting-State fMRI Analysis, *Medical Image Computing and Computer-Assisted Intervention*, Springer-Verlag, Lecture Notes in Computer Science, vol. 12267, pp 528-538, 2020.
58. Lu M, Poston K, Pfefferbaum A, Sullivan EV, Li FF, **Pohl KM**, Niebles JC, Adeli E: Vision-based Estimation of MDS-UPDRSGait Scores for Assessing Parkinson's Disease Motor Severity, *Medical Image Computing and Computer-Assisted Intervention*, Springer-Verlag, Lecture Notes in Computer Science, vol. 12263, pp 637-647, 2020.
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### Original Research Published Directly by Scientific Meeting

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\* Provided critical revision of manuscript for important intellectual content
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3. Zöllei L, Shenton M, Wells WM, **Pohl KM**: The impact of atlas formation methods on atlas-guided brain segmentation, *Statistical Registration: Pair-wise and Group-wise Alignment and Atlas Formation*, pp 39-46, 2007.
4. **Pohl KM**, Bouix S, Shenton ME, Grimson WEL, Kikinis R: Automatic segmentation using non-rigid registration, *Short Communications of Medical Image Computing and Computer Assisted Intervention*, 2005.
5. Rogalla O, **Pohl KM**, Dillmann R: A General approach for modeling robots, *IEEE/RSJ International Conference on Intelligent Robots and Systems*, 3, pp 1963 – 1968, 2000.

### Review Articles

1. Mukerji, SS, Petersen KJ, **Pohl KM\***, Dastgheyb RM, Fox HS, Bilder RM, Brouillette M-J, Gross AL, Scott-Sheldon LAJ, Paul RH, Gabuzda D: Machine learning approaches to understand cognitive phenotypes in people with HIV, *The Journal of Infectious Diseases*, Volume 227, Issue Supplement\_1, Pages S48–S57, 2023.  
\* Provided critical revision of manuscript for important intellectual content

### BOOK CHAPTERS

- Pohl KM**, Konukoglu E, Golby A, Kikinis R: Automatic Tumor Growth Detection, *In Pamir MN, Black P, Fahlbusch R: Meningiomas - A Comprehensive Text*, Philadelphia, Saunders, pp 2671 - 271, 2010.

## **COMMENTARY ACCOMPANYING CO-AUTHORED ARTICLES**

### **Sullivan EV et al.: Disturbed Cerebellar Growth Trajectories in Adolescents Who Initiate Alcohol Drinking, *Biological Psychiatry***

Commentary by AD Meruelo: Adolescent Cerebellar Development: An Underexplored Frontier, *Biological Psychiatry*, 87(7), e19–e20, 2020

### **Adeli E et al.: Novel Machine Learning Identifies Brain Patterns Distinguishing Diagnostic Membership of Human Immunodeficiency Virus, Alcoholism, and Their Comorbidity of Individuals, *Biological Psychiatry: Biological Psychiatry: Cognitive Neuroscience and Neuroimaging***

Commentary by C.Fennema-Notestine: Data-Driven Exploration of Brain Structure Using Statistical Machine Learning: Validity of Derived Diagnostic Patterns in Alcohol Use Disorder and Human Immunodeficiency Virus Infection, *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, 4(6), pp.508-509, 2019

### **Sullivan EV et al.: The Role of Aging, Drug Dependence and Hepatitis C Comorbidity in Alcoholism Cortical Compromise, *JAMA Psychiatry***

Commentary by GF Koob: Age, Alcohol Use, and Brain Function: Yoda Says, “With Age and Alcohol, Confused Is the Force”. *JAMA Psychiatry*. 75(5): 422, 2018

## **MEDIA COVERAGE FEATURING CO-AUTHORED ARTICLES**

### **Nerrise F. et al.: An Explainable Geometric-Weighted Graph Attention Network for Identifying Functional Networks Associated with Gait Impairment, *Lecture Notes in Computer Science***

RSIP Vision (<https://www.rsipvision.com/MICCAI2023-Tuesday/3>) 10/10/2023

Interview with Favour Nerrise

Republished in the Best of MICCAI Selection 11/01/2023

### **Zhao Q et al.: Longitudinal self-supervised learning, *Medical Image Analysis***

### **Ouyang J et al.: Self-supervised Longitudinal Neighbourhood Embedding, *Lecture Notes in Computer Science***

Towards Data Science ([towardsdatascience.com](https://towardsdatascience.com)) 6/20/2022

Longitudinal Self-Supervised Learning

### **Alzueta E et al.: Risk for Depression Tripled during COVID-19 Pandemic in Emerging Adults Followed for the Last 8 Years, *Psychological Medicine***

Forbes Magazine ([www.forbes.com](https://www.forbes.com)) 11/18/2021

The Risk of Depression In Emerging Adults Suddenly Tripled During COVID-19, and Young Women Are Particularly Vulnerable

### **Zhao Q et al.: Association of Heavy Drinking With Deviant Fiber Tract Development in Frontal Brain Systems in Young Adolescents, *JAMA Psychiatry***

Medscape Medical News ([www.medscape.com](https://www.medscape.com)) 01/07/2021

Heavy Drinking by Teens May Affect White Matter Integrity

Healio News ([www.healio.com](https://www.healio.com)) 01/04/2021

Heavy alcohol consumption produces 'deleterious' effects on adolescents' white matter

### **Pohl KM et al.: ABCD Neurocognitive Prediction Challenge, *Lecture Notes in Computer Science***

RSIP Vision (<https://www.rsipvision.com/ComputerVisionNews-2019January/14>) 01/01/2019

Challenge: ABCD (MICCAI 2019) ABCD Neurocognitive Prediction Challenge

### **Esmaeilzadeh et al.: End-To-End Alzheimer’s Disease Diagnosis and Biomarker Identification, *Machine Learning in Medical Imaging***

NVIDIA ([nvidia.com](https://www.nvidia.com)) 10/03/2018

Stanford Researchers Develop AI that Can Help Diagnose Alzheimer’s Disease

**ABSTRACTS (since 2015)**

1. Mannarino J, Cho K, Paul R, Sacdalan C, Ocampo F, Chan P, Trautmann L, Ake J, Sriplienchan S, Poltubtim N, Bolzenius J, Vasan S, Sailasuta N, **Pohl KM**, Spudich S: Predictors of CD4/CD8 T-Cell Inversion After 96 Weeks of ART Initiated During Acute HIV, *Conference on Retroviruses and Opportunistic Infections, 2024*
2. Wilson S, Milicic A, Javandel S, Yballa C, Milanini B, **Pohl KM**, Paul R, Valcour, V: Beta-Amyloid PET Positivity Among Cognitively Impaired People With HIV Over Age 60, *Conference on Retroviruses and Opportunistic Infections, 2024*
3. Bolzenius J, Sailasuta N, Chan P, Sacdalan C, Ake, Sriplienchan S, Trautmann L, , Vasan S, Crowell T, Ocampo F, Spudich S, Valcour V, **Pohl KM**, Paul R: Further Evidence of Hypertrophy in Acute Infection Identified Using Machine Learning, *Conference on Retroviruses and Opportunistic Infections, 2024*
4. Fama R, Müller-Oehring EM, Levine TF, Sullivan EV, Asok P, Sassoon SA, Brontë-Stewart HM, Poston KL, **Pohl KM**, Pfefferbaum A, Schulte T: Episodic memory deficits and fronto-limbic correlates in older adults living with HIV: Comparison to Parkinson's disease and normal aging. *Annual meeting of the International Neuropsychological Society, 2023*
5. Pfefferbaum A, **Pohl KM**, Sullivan EV: Consequences of adolescent drinking on cortical and cerebellar structure. *Alcoholism and Stress: A Framework for Future Treatment Strategies, 2023*
6. Riley EP, **Pohl KM**, Grethe A, Stoner SA, Sullivan EV, Pfefferbaum A: Graded regional cerebellar volume deficits in adolescents and adults with Fetal Alcohol Effect (FAE) and Fetal Alcohol Syndrome (FAS). *Alcoholism and Stress: A Framework for Future Treatment Strategies, 2023*
7. Chirokoff, V., Pohl, K., Dupuy, M., Abdallah, M., Misdrahi, D., Serre, F., Auriacombe, M., Fatseas, M., Berthoz, S., Swendsen, J., Pfefferbaum, A., Sullivan, E. & Chanraud, S. White matter integrity interacts with prognostic factors of relapse in Substance Use Disorders. *Stanford Neurosciences Forum, 2023.*
8. Baker FC, Zhao Q, Pelham III WE, Alzueta E, Podhasky S, Yuksel D, Thompson W, Tapert SF, **Pohl KM**: Changes in Alcohol Consumption and Mental Health across the Coronavirus Pandemic in Early Adulthood, *45<sup>th</sup> Annual Research Society on Alcoholism Scientific Meeting, 2022*
9. **Pohl KM**, Zhao Q, Adeli E, Sullivan EV, Pfefferbaum A: Deep Learning Identifies Effects of Alcohol Drinking on the Early Adult Brain, *45<sup>th</sup> Annual Research Society on Alcoholism Scientific Meeting, 2022*
10. Sullivan EV, Zahr NM, Sassoon SA, **Pohl KM**, Pfefferbaum A: Brain structural correlates of postural instability in HIV infection. *Annual Meeting of the Society on NeuroImmune Pharmacology. Memphis, 2022*
11. Adeli E, Sullivan EV, Lu M, Zhao Q, Montaser Kouhsari L, Katz M, Pfefferbaum A, **Pohl KM**, Henderson VW, Poston K: Automatic Estimation of MDS-UPDRS Gait Scores from Videos with Multi-Rater Disagreements, *Movement Disorders Society Congress, 2021*
12. Kiss O, Alzueta E, Yuksel D, Durley I, Volpe L, Dulai T, Arra N, Obilor T, **Pohl KM**, de Zambotti M, Baker FC, Poor sleep as a predictor of COVID-19 related stress, fear and sadness in young adolescents: a longitudinal study, *Annual Meeting of the Sleep Society, 2021*
13. Zhao Q, Sullivan EV, Honnorat N, Adeli E, Podhajsky S, De Bellis MD, Nooner KB, Baker FC, Colrain IM, Tapert SF, Brown SA, Thompson WK, Nagel BJ, Clark DB, Pfefferbaum A, **Pohl KM**: Young Teens Who Initiate Heavy Drinking Risk Deviant Fiber Tract Development in Frontal Brain Systems, *44<sup>th</sup> Annual Research Society on Alcoholism Scientific Meeting, 2021*
14. Lannoy S, Pfefferbaum A, Le Berre AP, Thompson WK, Brumback T, Schulte T, **Pohl KM**, De Bellis MD, Nooner KB, Baker FC, Prouty D, Colrain IM, Nagel BJ, Brown SA, Clark DB, Tapert SF, Sullivan EV, Müller-Oehring EM: Growth trajectories of cognitive and motor control in adolescence: How much is development and how much is practice? *44<sup>th</sup> Annual Research Society on Alcoholism Scientific Meeting, 2021*
15. Fama R, Le Berre AP, Sassoon SA, Zahr NM, **Pohl KM**, Pfefferbaum A, Sullivan EV: Alcohol and substance misuse: Effects on explicit memory and the role of regional frontal volumes. *44<sup>th</sup> Annual Research Society on Alcoholism Scientific Meeting, 2021.*
16. Riley EP, Moore EM, **Pohl KM**, Sullivan EV, Pfefferbaum A: Graded regional cerebellar volume deficits in adolescents and adults with Fetal Alcohol Effect (FAE) and Fetal Alcohol Syndrome (FAS), *Meeting of stress and neuroimmune factors of addiction, 2021*

17. Pfefferbaum A, **Pohl KM**, Sullivan EV: Consequences of adolescent drinking on cortical and cerebellar structure, *Meeting of stress and neuroimmune factors of addiction*, 2021
18. Lu M, Poston K, Pfefferbaum A, Sullivan EV, Fei-Fei L, **Pohl KM**, Niebles JC, Adeli E: Vision-based Estimation of MDS-UPDRS Gait Scores for Assessing Parkinson's Disease Motor Severity, *Stanford Wu-Tsai Neuroscience Institute Symposium*, 2020
19. **Pohl KM**, Zhao Q, Adeli E: Advancing Neuroscientific Discovery via Bias-Resilient Neural Networks, *54<sup>th</sup> Asilomar Conference on Signals, Systems and Computers*, 2020
20. Lannoy S, Brumback T, Le Berre A-P, Sullivan EV, **Pohl KM**, Schulte T, Pfefferbaum A, De Bellis MD, Baker FC, Colrain IM, Nagel BJ, Brown SA, Clark DB, Tapert SF, Müller-Oehring EM (2020): The development of cognitive and motor control in adolescence and its relation with alcohol consumption: A three-year investigation, *43<sup>rd</sup> Annual Research Society on Alcoholism Scientific Meeting*, 2020
21. Honnorat N, Saranathan M, **Pohl KM**, Sullivan EV, Pfefferbaum A, Zahr NM (2020): Alcohol Use Disorder alters functional connectivity of thalamic nuclei, *43<sup>rd</sup> Annual Research Society on Alcoholism Scientific Meeting*, 2020
22. Pfefferbaum A, Zahr NM, Zhao Q, **Pohl KM**, Sullivan EV: Translational Studies of Alcohol Use Disorder, *7<sup>th</sup> International Drug Abuse Research Society Meeting*, 2019
23. Sullivan EV, Moore EM, **Pohl KM**, Riley EP, Pfefferbaum A (2019): Pattern of cerebellar lobular volume deficits in adolescents and adult with Fetal Alcohol Effects (FAE) and Fetal Alcohol Syndrome (FAS), *Annual meeting of the American College of Neuropsychopharmacology*, 2019
24. Fama R, Le Berre AP, Sassooun SA, Zahr NM, **Pohl KM**, Pfefferbaum A, Sullivan EV: Frontal correlates of verbal and visual memory in alcoholism: a double dissociation, *Annual Meeting of the Society for Neuroscience*, 2019.
25. Pfefferbaum A, Zahr NM, Zhao Q, **Pohl KM**, Sullivan EV: Translational studies of Alcohol Use Disorder. *Annual Meeting of the International Drug Abuse Research Society*, 2019
26. Zahr NM, **Pohl KM**, Sullivan EV, Pfefferbaum A: CNS correlates of objective neuropathy in Alcohol Use Disorder (AUD), *42<sup>nd</sup> Annual Research Society on Alcoholism Scientific Meeting*, 2019
27. Müller-Oehring EM, Fama R, Pfefferbaum A, **Pohl KM**, Brontë-Stewart, Poston KL, Pradhakar V, Sullivan EV, Schulte T: The role of age and lifetime alcohol consumption on regional brain volumes for executive control and motor function in HIV infection: A comparison with Parkinson's disease, *42<sup>nd</sup> Annual Research Society on Alcoholism Scientific Meeting*, 2019
28. Zahr NM, Saranathan M, **Pohl KM**, Sullivan EV, Pfefferbaum A: Thalamic substructures in HIV: Volume deficits and Correlates. *25<sup>th</sup> Scientific Conference of the Society on NeuroImmune Pharmacology*, 2019
29. Adeli E, **Pohl KM**: Identifying Disease Comorbidity Brain Patterns, *Stanford Neuroscience Institute Symposium*, 2018
30. Honnorat N, Adeli E, Pfefferbaum A, Sullivan EV, **Pohl KM**: Cardinality Constrained Functional Connectivity Estimation to Quantify Neurodevelopment, *Stanford Neuroscience Institute Symposium*, 2018
31. Honnorat N, Adeli E, Pfefferbaum A, Sullivan EV, **Pohl KM**: Cardinality Constrained Functional Connectivity Estimation to Quantify Neurodevelopment, *SRI International*, 2018
32. Zahr NM, **Pohl KM**, Saranathan M, Sullivan EV, Pfefferbaum A: Hippocampal subfield CA2+3 is sensitive to age-by-alcoholism interactions. *Annual meeting of the American College of Neuropsychopharmacology*, 2018
33. Zahr NM, Kwon D, **Pohl KM**, Sullivan EV, Pfefferbaum A: CNS correlates of HIV-associated peripheral neuropathy and postural instability, *24<sup>th</sup> Scientific Conference of the Society on NeuroImmune Pharmacology*, 2018
34. Zahr NM, Kwon D, **Pohl KM**, Sullivan EV, Pfefferbaum A: Regional brain volumes in HIV infection, alcohol use disorders, and hepatitis C. *Annual Meeting of the Society for Neuroscience*, 2017
35. Zahr NM, Kwon D, **Pohl KM**, Sullivan EV, Pfefferbaum A: Peripheral TNF levels correlate with hippocampal volume in alcoholism but not in HIV infection. *Annual Meeting of the American College of Neuropsychopharmacology*, 2017

36. Goldstone A, Willoughby AR, de Zambotti M, Franzen PL, **Pohl KM**, Pfefferbaum A, Sullivan EV, Müller-Oehring EM, Prouty D, Kwon D, Hasler B, Clark DB, Colrain IM, Baker FC (2017): The mediating effect of brain structure on sleep slow wave activity during adolescence. *Annual Meeting of the Sleep Society*, 2017
37. Kwon D, Pfefferbaum A, Sullivan EV, **Pohl KM**: Dense statistics on cortical thickness and myelin reveals adolescent brain development, *Annual Meeting of the Organization of Human Brain Mapping*, 2017
38. Pfefferbaum A, Nagel BJ, Müller-Oehring EM, Sullivan EV, **Pohl KM**: Harmonization of multimodal neuroimaging to examine age, sex, and alcohol-related changes in brain structure through adolescence and young adulthood. *40<sup>th</sup> Annual Meeting of the Research Society on Alcoholism*, 2017
39. Pfefferbaum A, Sullivan EV, **Pohl KM**: Use of multimodal neuroimaging techniques to examine age, sex, and alcohol-related changes in brain structure through adolescence and young adulthood. *Annual meeting of the American Psychiatric Association*, 2017
40. Müller-Oehring EM, Kwon D, Nagel BJ, Sullivan EV, Chu W, Rohlfing T, Prouty D, Nichols BN, Poline JB, Tapert SF, Brown SA, Cummins K, Brumback T, Colrain IM, Baker FC, De Bellis MD, Voyvodic J, Clark DB, Pfefferbaum A, **Pohl KM**: Functional brain networks related to sex, age, and alcohol in adolescence: Initial resting-state fMRI findings from NCANDA, *39<sup>th</sup> Annual Meeting of the Research Society on Alcoholism*, 2016
41. Clark DB, Brumback T, Chung T, De Bellis MD, Colrain IM, Baker FC, Nagel BJ, Pfefferbaum A, Sullivan EV, **Pohl KM**, Tapert SF, Brown SA: Executive functioning and risks for alcohol use disorder: Baseline results from NCANDA, *39<sup>th</sup> Annual Meeting of the Research Society on Alcoholism*, 2016
42. Nichols BN, Brown SA, Clark DB, Colrain IM, De Bellis MD, Nagel BJ, Pfefferbaum A, Sullivan EV, Tapert SF, **Pohl KM**: NCANDA--A prospective longitudinal and multisite neuroimaging study and adolescent brain development and alcohol use, *Annual Meeting of the Society for Biological Psychiatry*, 2016
43. Sasso SA, Chu W, Fama R, Prouty D, Tapert SF, Brown SA, Baker FC, Clark DB, Colrain IM, De Bellis MD, Bagel BJ, **Pohl KM**, Pfefferbaum A, Sullivan EV: Visuospatial construction and memory in adolescence: Relations with age, sex, alcohol drinking and organizational strategy, *Annual Meeting of the International Neuropsychological Society*, 2016
44. Pfefferbaum A, **Pohl KM**, Brown SA, Tapert SF, Clark DB, De Bellis MD, Nagel B, Colrain IM, Baker FC, Sullivan EV: Age, sex, drinking, and the adolescent brain: Initial findings from the National Consortium on Alcohol and NeuroDevelopment in Adolescence. *European Society for Biomedical Research on Alcoholism*, 2015
45. Tapert SF, Brumback T, Tomlinson K, Cummins K, Baker FC, Clark DB, Colrain IM, De Bellis MD, Nagel B, Chu W, Rohlfing T, **Pohl KM**, Sullivan EV, Pfefferbaum A, Brown SA: National Consortium on Alcohol & NeuroDevelopment in Adolescence: Characterization of the sample, *38<sup>th</sup> Annual Meeting of the Research Society on Alcoholism*, 2015
46. Pfefferbaum A, Rohlfing T, Brown SA, Tapert SF, Clark DB, De Bellis MD, Nagel B, Colrain IM, Baker FC, **Pohl KM**, Sullivan EV: Differences in adolescent brain cortex related to age and sex: Initial findings from National Consortium on Alcohol & NeuroDevelopment in Adolescence, *38<sup>th</sup> Annual Meeting of the Research Society on Alcoholism*, 2015
47. **Pohl KM**, Rohlfing T, Brown SA, Tapert SF, Clark DB, De Bellis MD, Nagel B, Colrain IM, Baker FC, Sullivan EV, Pfefferbaum A: Age-related differences in adolescent brain microstructure: Initial findings from National Consortium on Alcohol & NeuroDevelopment in Adolescence, *38<sup>th</sup> Annual Meeting of the Research Society on Alcoholism*, 2015
48. Baker FC, Hasler B, Colrain IM, Clark DB, De Bellis MD, Nagel B, Brown SA, Rohlfing T, **Pohl KM**, Nichols BN, Chu W, Hooper SR, Prouty D, Fama R, Pfefferbaum A, Tapert SF, Sullivan EV: Age & sex differences in cognitive, motor & sleep indices: Initial findings of the National Consortium on Alcohol & NeuroDevelopment in Adolescence, *38<sup>th</sup> Annual Meeting of the Research Society on Alcoholism*, 2015

**GUEST LECTURES****2024**

Accelerating Neuroscience Discovery via Software and Data Sharing  
 NIH Data Sharing and Reuse Seminar  
 Office of Data Science Strategy, National Institutes of Health  
 Crafting Machine Learning Models for Neuroscience Discovery  
 Electrical Engineering Faculty Lunch,  
 Department of Electrical Engineering, Stanford, CA

**2023**

Machine Learning and Learning Machines: A Dialogue  
 Psychiatry Grand Rounds,  
 Department of Psychiatry and Behavioral Sciences, Stanford, CA  
 Advancing Computational Neuroimage Science  
 AI Colloquium Lecture, Daegu Gyeongbuk Institute of Science & Technology, South Korea  
 Crafting Machine Learning Models for Neuroscience Discovery  
 Psychiatry Major Labs Retreat  
 Department of Psychiatry and Behavioral Sciences, Stanford, CA

**2022**

Advancing Computational Neuroimage Science  
 Ance Bioimaging Laboratory, Washington University, St. Louis, MO  
 Computational Neuroimage Science: From A to Z  
 Course BMI 260 “Computational Methods for Biomedical Image”,  
*Stanford University, Stanford, CA; Spring*  
 Machine Learning Applications to Identify, Characterize and Predict NeuroHIV Biotypes  
 International NeuroHIV Cure Consortium, General Teleconference Call

**2021**

Advancing Machine Learning Analysis to Improve the Mechanistic Understanding of Neuropsychiatric Disorders  
 International NeuroHIV Cure Consortium, General Teleconference Call  
 Training Confounder-free Deep Learning Models for Medical Applications  
 AIMI Journal Club, Stanford University, Stanford, CA

**2020**

Computational Neuroscience Laboratory  
 Major Laboratory Annual Retreat, Stanford University, Stanford, CA

**2019**

Create a Software Platform for Large Scale Imaging Studies  
 Course BMI 260 “Computational Methods for Biomedical Image”,  
*Stanford University, Stanford, CA; Spring*

**2018**

Create a Software Platform for Large Scale Imaging Studies  
 Course BMI 260 “Computational Methods for Biomedical Image”,  
*Stanford University, Stanford, CA; Spring*

**2016**

Create a Software Platform for Large Scale Imaging Studies  
 Course BMI 260 “Computational Methods for Biomedical Image”,  
*Stanford University, Stanford, CA; Spring*

SIBIS: Scalable Informatics for Biomedical Imaging Studies  
*Department of Tropical Medicine, Burns School of Medicine, University of Hawaii; May*

SIBIS: Scalable Informatics for Biomedical Imaging Studies  
*Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Boston, MA; February*

**2015**

SIBIS: Scalable Informatics for Biomedical Imaging Studies  
*Integrative Biomedical Imaging Informatics at Stanford Annual Retreat, Santa Cruz, CA; September*

A Shape Representation based on the Logarithm of Odds  
*Department of Computer Science, Simon Fraser University, Burnaby, British Columbia; July*

iMap: Manifold Learning for MRI Phenotype Detection  
*Course Biomedical Informatics 260, Stanford University, Stanford, CA; Spring*

Automatic Identification of Imaging Phenotypes from Cine MRIs  
*HeartFlow Inc. Redwood City, CA; May*

#### **2014**

iMap: Manifold Learning for MRI Phenotype Detection  
*Course Biomedical Informatics 260, Stanford University, Stanford, CA; Spring*

Logarithm of Odds for Medical Images Analysis  
*Divisions of Biostatistics and Bioinformatics, University California - San Francisco; March*

#### **2013**

Automatic Identification of MRI Phenotypes  
*Biosciences Seminar, SRI International, Menlo Park, California; August*

Automatic Identification of Imaging Phenotypes  
*Department of Computer Science, IBM Research Almaden, San Jose, CA; March*

#### **2012**

*Image-Based Quantification of Pathologies*  
*Department of Radiology and Biomedical Imaging Research, University of California, San Francisco; September*

Identifying Imaging Phenotypes via Advanced Shape Analysis  
*Neurology Grand Rounds, University of California, San Francisco; August*

Automatic Identification of Pathology from 4D Medical Scans  
*Center for Biomedical Imaging, University of Pennsylvania, Philadelphia, PA; June*

Implicit Shape Representations for Medical Images  
*Center for Imaging Science, John Hopkins University, Baltimore, MA; April*

Biomedical Image Analysis  
*Lecturer, Graduate Course CIS 537-401 2012A,*  
*Department of Computer & Information Science, University of Pennsylvania, Philadelphia, Spring*

Computational Sciences in Oncologic Imaging  
*ACC Radiobiology and Imaging Program Annual Retreat, University of Pennsylvania, Philadelphia; March*

Learning to Extract Disease Specific Phenotypes from Medical Scans  
*Center for Imaging of Neurodegenerative Diseases, Department of Radiology,*  
*University of California - San Francisco; February*

#### **2011**

Automatic Identification of Pathology from Medical Scans  
*Department of Computer Science, University of Erlangen-Nuermberg, Germany; November*

Automatic Cardiac Disease Detection based on Multimodal Medical Data  
*Radiology Cardiovascular Imaging Research Seminar, University of Pennsylvania; November*

Identifying Pathologies from Medical Images  
*Department of Radiation Oncology, Massachusetts General Hospital, Boston, MA; September*

Medical Image Based Biomarkers for Disease Detection  
*Department of Computer Science, Rutgers University, New Brunswick, NH; August*

Computer Reading of Brain Tumor Radiologic Images  
*Brain Tumor Imaging Retreat, University of Pennsylvania, Philadelphia; June*

Identifying Pathologies from Medical Images  
*Golby Lab Meeting, Brigham and Women's Hospital, Boston, MA; June*

Medical Image Based Biomarkers for Disease Detection  
*Information Sciences in Imaging at Stanford Seminar, Stanford University, Stanford, CA; May*

Computational Biology and Visualization

*Guest Lecturer, Graduate Course CSE 788, Department of Computer Science and Engineering, Ohio State University, Columbus, OH; Spring*

Medical Image Based Disease Markers

*Department of Computer Science and Engineering, Ohio State University, Columbus, OH; April*

## **2010**

Monitoring Slowly Evolving Tumors

*Radiobiology and Imaging Program-Seminar, Department of Radiation Oncology, University of Pennsylvania, Philadelphia; December*

Joint Registration and Segmentation

*Lecture Series in Bioimaging Sciences, Yale University, New Haven, CT; November*

Active Mean Fields: Evolving Curves via an Explicit Probabilistic Representation

*GRASP Seminar Series, Department of Computer Science, University of Pennsylvania, Philadelphia; October*

Active Mean Fields: Evolving Curves via an Explicit Probabilistic Representation

*Department of Computer Science, Technical University of Munich, Germany; October*

A Unified Framework for MR Based Disease Classification

*Pattern Recognition Lab, University of Erlangen, Germany; September*

Active Mean Fields: Evolving Curves via an Explicit Probabilistic Representation

*Department of Computer Science, University of North Carolina, Chapel Hill, NC; August*

Representing Objects via the Logarithm of Odds

*Cardiovascular Imaging & Biomedical Image Computing Retreat, University of Pennsylvania, Philadelphia; May*

miAnnotation: An Open Source Software Tool for Annotating Medical Images

*Health Care Lunch Talk, IBM Research Almaden, San Jose, CA; May*

## **2009**

Decision Support based on 3D Medical Imaging

*Health Care Department, IBM Research Almaden, San Jose, CA; December*

Representing Objects via the Logarithm of Odds

*Pattern Recognition Lab, University of Erlangen, Germany; September*

A Unified Framework for MR Based Disease Classification

*Functional Imaging Laboratory, University College London, London, Great Britain; September*

Representing Objects via the Logarithm of Odds

*Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Boston; April*

## **2008**

Representing Objects via the Logarithm of Odds

*Department of Computer Science, University of Chicago, Chicago IL; December*

Decision Support based on 3D Medical Imaging

*The Healthcare Lunch Seminar, IBM Research Almaden, San Jose, CA; November*

Representing Objects via the Logarithm of Odds

*Le Laboratoire de Mathématiques Appliquées aux Systèmes, Ecole Centrale Paris, Paris, France; October*

Tools for Processing Medical Images

*Medical and Biological Informatics, German Cancer Research Center, Heidelberg, Germany; May*

Incorporating Prior Information into Automatic Segmentation

*Allen Institute, Seattle, WA; April*

Automatic Tools for Monitoring Brain Tumors

*Neuro-Oncology Conference, Dana-Farber Cancer Institute, Boston, MA; March*

Representing Objects via the Logarithm of Odds

*Minerva Research Group, Georgia Institute of Technology, Atlanta, GA; March*



Simple Interface / Powerful Algorithms: Image Segmentation and Legion Measurement Tools for Interdisciplinary Research

*National Cancer Institute Advanced Biomedical Computing Center, Fredrick, Maryland; March*

Representing Objects via the Logarithm of Odds

*Stanford University, The Paik Lab, Stanford, CA; February*

A Hierarchical Segmentation Algorithm for Medical Images

*Image Processing Seminar, University of California, Irvine; January*

Representing Objects via the Logarithm of Odds

*Institute for Pure & Applied Mathematics, University of California, Los Angeles; January*

## 2007

Monitoring Brain Tumor Growth

*Prostate Group Meeting, Brigham and Women's Hospital, Boston, MA; December*

Representing Uncertainty via the Logarithm of Odds

*Visualization and Graphics Group, University of California, Santa Cruz; November*

Incorporating Prior Information into Automatic MR Brain Segmentation

*Center for Imaging of Neurodegenerative Diseases, University of California, San Francisco; October*

Solving the Mean Field Approximation in the Level Set Framework via the Logarithm of Odds,

*INRIA, Sophia-Antipolis, France; August*

Automatic Segmentation of MR Brain Images

*Radiology Sciences Laboratory, Stanford University, Stanford, CA; July*

Solving the Mean Field Approximation in the Level Set Framework via the Logarithm of Odds

*Institute for Mathematics, University of Lübeck, Germany; July*

Solving the Mean Field Approximation in the Level Set Framework via the Logarithm of Odds

*Image Processing Seminar, Institute for Pure & Applied Mathematics, University of California, Los Angeles; June*

A Hierarchical Segmentation Algorithm for MR Brain Images

*Center for Computational Biology, University of California, Los Angeles; May*

## 2006

Logarithm Odds Maps for Shape Representation

*Journal Club, Department of Radiology, Brigham and Women's Hospital, Harvard Medical School, Boston, MA; September*

Automatic Segmentation of Medical Images

*Vision Seminar, IBM Research Almaden, San Jose, CA; July*

Calibrating Slicer's EM Segmenter

*National Alliance for Medical Image Computing Summer Project Week, Boston, MA; June*

A Shape Representation based on the Logarithm of Odds

*The Stochastic Systems Group Seminar, Laboratory for Information and Decision Systems, Massachusetts Institute of Technology, Cambridge, MA; May*

Using Prior Information for the Automatic Segmentation of Medical Images

*Vision Seminar, Stanford Vision Science and Neuroimaging Group, Stanford University; April*

## 2005

Combining Registration and Segmentation to Analyze Medical Images

*The Stochastic Systems Group Seminar, Laboratory for Information and Decision Systems, Massachusetts Institute of Technology, Cambridge, MA; April*

## 2004

Anatomical Guided Segmentation with Non-Stationary Tissue Class Distributions in an Expectation-Maximization Framework

*Surgical Planning Lab, Brigham and Women's Hospital, Harvard School of Medicine, Boston, MA; March*

**COURSES****2023**

PSYC 121/ PSYC 221/ BIODS 227: Machine Learning for Neuroimaging  
 Primary Instructor, Department of Psychiatry  
*Stanford University, Stanford, CA; Fall*

**2022**

PSYC 121/ PSYC 221/ BIODS 227: Machine Learning for Neuroimaging  
 Primary Instructor, Department of Psychiatry  
*Stanford University, Stanford, CA; Fall*

**2004**

Mathematics for Computer Science  
 Teaching Assistant, Department of Computer Science,  
*Massachusetts Institute of Technology, Cambridge, MA; Fall*

**1996**

Introductory Calculus  
*Department of Mathematics, University of Karlsruhe, Germany; Spring*

**1995**

Advanced Calculus  
*Department of Mathematics, University of Karlsruhe, Germany; Fall*

**PATENTS**

Validation of Ingested Data for Smart Analytics Applications  
 US 2012/0197848 A1  
 Bhagwan V, Grandison T, Gruhl D, **Pohl KM**

**PUBLICLY AVAILABLE SOFTWARE****Algorithms Accompanying Publications**

	<b>Initial Release</b>
Peng W et al.: Generating Realistic Brain MRIs via a Conditional Diffusion Probabilistic Model, <i>Medical Image Computing and Computer Assisted Intervention</i> <a href="https://github.com/Project-MONAI/GenerativeModels">https://github.com/Project-MONAI/GenerativeModels</a>	2023
Ouyang J et al.: LSOR: Longitudinally-Consistent Self-Organized Representation Learning, <i>Medical Image Computing and Computer-Assisted Intervention</i> <a href="https://github.com/Project-MONAI/GenerativeModels">https://github.com/Project-MONAI/GenerativeModels</a>	2023
Wang Y et al.: Imputing Brain Measurements Across Data Sets via Graph Neural Networks, <i>Predictive Intelligence in Medicine</i> <a href="https://github.com/Wangyixinxin/DAGI">https://github.com/Wangyixinxin/DAGI</a>	2023
Nerrise F et al.: An Explainable Geometric-Weighted Graph Attention Network for Identifying Functional Networks Associated with Gait Impairment, <i>Medical Image Computing and Computer-Assisted Intervention</i> <a href="https://github.com/Wangyixinxin/DAGI">https://github.com/Wangyixinxin/DAGI</a>	2023
Kang M et al.: One-shot Federated Learning on Medical Data using Knowledge Distillation with Image Synthesis and Client Model Adaptation, <i>Medical Image Computing and Computer-Assisted Intervention</i> <a href="https://github.com/myeongkyunkang/FedISCA">https://github.com/myeongkyunkang/FedISCA</a>	2023
Singla A et al.: Multiple Instance Neuroimage Transformer, <i>Predictive Intelligence in Medicine</i> , <a href="https://github.com/singlaayush/mini">https://github.com/singlaayush/mini</a>	2022
Paschali M et al.: Bridging the Gap Between Deep Learning and Hypothesis-Driven Analysis via Permutation Testing, <i>Predictive Intelligence in Medicine</i> <a href="https://github.com/MaggiePas/Permutations_MICCAIPRIME2022">https://github.com/MaggiePas/Permutations_MICCAIPRIME2022</a>	2022

- Endo M et al.: GaitForeMer: Self-Supervised Pre-Training of Transformers via Human Motion Forecasting for Few-Shot Gait Impairment Severity Estimation, *Medical Image Computing and Computer Assisted Intervention* 2022  
<https://github.com/markendo/GaitForeMer>
- Vento A et al.: A Penalty Approach for Normalizing Feature Distributions to Build Confounder-Free Models, *Medical Image Computing and Computer Assisted Intervention* 2022  
<https://github.com/vento99/PMDN>
- Li et al.: Joint Graph Convolution for Analyzing Brain Structural and Functional Connectome *Medical Image Computing and Computer Assisted Intervention* 2022  
[https://github.com/Li-Yueting/brain\\_gcn](https://github.com/Li-Yueting/brain_gcn)
- Ouyang J et al.: Disentangling Normal Aging from Severity of Disease via Weak Supervision on Longitudinal MRI, *IEEE Transactions on Medical Imaging* 2022  
<https://github.com/ouyangjiahong/longitudinal-direction-disentangle>
- Butskova A et al.: Adversarial Bayesian Optimization for Quantifying Motion Artifact within MRI, *PRedictive Intelligence in MEDicine* 2021  
<https://github.com/anastasb/MRI-Motion-Artifact-Quantification>
- Ouyang J et al.: Self-Supervised Longitudinal Neighbourhood Embedding, *Medical Image Computing and Computer-Assisted Intervention* 2021  
<https://github.com/ouyangjiahong/longitudinal-neighbourhood-embedding>
- Zhao Q, et al.: Longitudinal Correlation Analysis for Decoding Multi-Modal Brain Development, *Medical Image Computing and Computer-Assisted Intervention* 2021  
<https://github.com/QingyuZhao/LCA>
- Lu M et al.: Metadata Normalization, *Conference on Computer Vision and Pattern Recognition* 2021  
<https://github.com/mlu355/MetadataNorm>
- Zhao Q et al: Longitudinal Self-Supervised Learning, *Medical Image Analysis* 2021  
<https://github.com/ZucksLiu/LSSL>
- Liu Z et al: Going Beyond Saliency Maps: Training Deep Models to Interpret Deep Models, *Information Processing in Medical Imaging* 2021  
<https://github.com/ZucksLiu/DeepInterpret>
- Ouyang J et al.: Representation Disentanglement for Multi-modal MR Analysis, *Information Processing in Medical Imaging* 2021  
<https://github.com/ouyangjiahong/representation-disentanglement>
- Adeli E, et al.: Representation Learning with Statistical Independence to Mitigate Bias, *IEEE/CVF Winter Conference on Applications of Computer Vision* 2021  
<https://github.com/QingyuZhao/BR-Net>
- Adeli, E et al.: Deep Learning Identifies Morphological Determinants of Sex Differences in the Pre-Adolescent Brain, *NeuroImage* 2020  
<https://github.com/QingyuZhao/Confounder-Aware-CNN-Visualization>  
[https://github.com/eadeli/ABCD\\_SexDiff](https://github.com/eadeli/ABCD_SexDiff)
- Lu M et al.: Quantifying Parkinson's Disease Motor Severity Under Uncertainty Using MDS-UPDRS Videos, *Medical Image Analysis* and  
Lu et al.: Vision-based Estimation of MDS-UPDRS Gait Scores for Assessing Parkinson's Disease Motor Severity, *Medical Image Computing and Computer-Assisted Intervention* 2020  
<https://github.com/mlu355/PD-Motor-Severity-Estimation>
- Gadgil et al: Spatio-Temporal Graph Convolution for Functional MRI Analysis, *Medical Image Computing and Computer-Assisted Intervention* 2020  
[https://github.com/sgadgil6/cnslab\\_fmri](https://github.com/sgadgil6/cnslab_fmri)
- Ayub et al.: Inpainting Cropped Diffusion MRI using Deep Generative Models, *3<sup>rd</sup> Workshop on Predictive Intelligence in Medicine* 2020  
<https://github.com/RdoubleA/DWI-inpainting>

- Adeli et al.: Logistic Regression Confined by Cardinality-Constrained Sample and Feature Selection, *IEEE Transactions on Pattern Analysis And Machine Intelligence* 2019  
[https://github.com/eadeli/sfs\\_I0](https://github.com/eadeli/sfs_I0)
- Adeli et al.: Novel Machine Learning Identifies Brain Patterns Distinguishing Diagnostic Membership of Human Immunodeficiency Virus, Alcoholism, and Their Comorbidity of Individuals, *Biological Psychiatry: CNMI* 2019  
[http://stanford.edu/~eadeli/publications/codes/JFSS\\_Simplex.zip](http://stanford.edu/~eadeli/publications/codes/JFSS_Simplex.zip)
- Zhao et al.: Confounder-Aware Visualization of ConvNets, *International Workshop on Machine Learning in Medical Imaging* 2019  
<https://github.com/QingyuZhao/Confounder-Aware-CNN-Visualization>
- Zhao et al.: Variational Autoencoder for Regression: Application to Brain Aging Analysis, *Medical Image Computing and Computer-Assisted Intervention* 2019  
<https://github.com/QingyuZhao/VAE-for-Regression>
- Zhao et al.: Variational autoencoder with truncated mixture of gaussians for functional connectivity analysis, *International Conference on Information Processing in Medical Imaging*, 2019  
<https://github.com/QingyuZhao/TruncatedGaussianMixtureVAE>
- Zhao et al.: Longitudinally Consistent Estimates of Intrinsic Functional Networks, *Human Brain Mapping* 2019  
<https://github.com/sibis-platform/L-ICA-for-longitudinal-rs-fMRI-Analysis>
- Adeli et al.: Chained Regularization for Identifying Brain Patterns Specific to HIV Infection, *NeuroImage* 2018  
<http://stanford.edu/~eadeli/publications/codes/KFSMMC.zip>
- Adeli et al.: Multi-Label Transduction for Identifying Disease Comorbidity Patterns, *Medical Image Computing and Computer Assisted Intervention* 2018  
[http://stanford.edu/~eadeli/publications/codes/MC\\_NonNeg%20Demo.zip](http://stanford.edu/~eadeli/publications/codes/MC_NonNeg%20Demo.zip)
- Zhao et al.: A Riemannian Framework for Longitudinal Analysis of Resting-State Functional Connectivity, *Medical Image Computing and Computer-Assisted Intervention* 2018  
<https://github.com/QingyuZhao/A-Riemannian-Framework-for-Longitudinal-Analysis-of-Resting-State-Functional-Connectivity>
- Software Packages**
- Medical Image Quality Assurance (MIQA): 2021  
 Description: leveraging modern UI/UX and deep learning techniques to advance visual quality control of medical images  
 Distribution: <https://miqa.kitware.com>  
 Role: Tester
- Scalable Informatics for Biomedical Imaging Studies (SIBIS) 2016  
 Description: SIBIS consists of IT infrastructure for uploading behavioral and imaging data through application programming interfaces to a central biomedical data repository, querying the data through a web interface, a validated workflow to perform quality control, and a multi-modal image processing pipeline.  
 Distribution: <https://github.com/sibis-platform>  
 Role: Developer & Supervisor
- Sviewer 2015  
 Description: 3D+t viewer based on 3D Slicer technology  
 Distribution: <https://github.com/sibis-platform/viewer>  
 Role: Developer
- BASIS 2012  
 Description: Development environment accompanying tools for testing and packaging software across platforms and languages  
 Distribution: <http://www.rad.upenn.edu/sbia/software/doxygen/basis/1.2/html>  
 Role: Supervisor

AtlasCreator	2011
Description: Automatically extracts cohort specific data from set of training images	
Distribution: 3DSlicer ( <a href="http://slicer.org">http://slicer.org</a> )	
Role: Supervisor	
GLISTR	2011
Description: First automatic tool for segmenting glioma and healthy tissue from MR brain scans	
Distribution: <a href="https://www.rad.upenn.edu/sbia/projects/glistr.html">https://www.rad.upenn.edu/sbia/projects/glistr.html</a>	
Role: Supervisor	
SceneView	2010
Description: Graphical browser for scenes saved in 3D Slicer	
Distribution: 3DSlicer ( <a href="http://slicer.org">http://slicer.org</a> )	
Role: Supervisor	
Annotation	2010
Description: A tool for annotating medical scans using state-of-the-art 2D and 3D	
Distribution: 3DSlicer ( <a href="http://www.slicer.org">www.slicer.org</a> )	
Role: Developer, Supervisor	
Change Tracker	2008
Description: Semi-automatic tool for quantification of the subtle changes in pathology	
Distribution: 3DSlicer ( <a href="http://www.slicer.org">www.slicer.org</a> )	
Role: Developer	
EMSegmenter	2003
Description: An advanced MRI segmentation tool	
Distribution: 3DSlicer ( <a href="http://www.slicer.org">www.slicer.org</a> )	
Role: Developer, Supervisor	

## **PUBLICLY AVAILABLE DATA**

	<b>Release</b>
<b>National Consortium on Alcohol and NeuroDevelopment in Adolescence</b>	
Pohl, K.M., Sullivan EV, Podhajsky S, Baker FC, Brown SA, Clark DB, de Zambotti M, Goldston D, Nagel BJ, Nooner KB, Tapert SF, Pfefferbaum A.: The <a href="#">NCANDA PUBLIC 7Y COVID REDCAP V03</a> Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse	2023
Pohl, K.M., Sullivan EV, Podhajsky S, Baker FC, Brown SA, Clark DB, de Zambotti M, Goldston D, Nagel BJ, Nooner KB, Tapert SF, Pfefferbaum A.: The <a href="#">NCANDA PUBLIC 7Y COVID REDCAP V02</a> Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse, 2023.	2023
Pohl, K.M., Sullivan EV, Podhajsky S, Baker FC, Brown SA, Clark DB, Colrain IM, DeBellis M, Goldston D, Nagel BJ, Nooner KB, Tapert SF, Pfefferbaum A.: The <a href="#">NCANDA PUBLIC 7Y COVID REDCAP V01</a> Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse	2023
Pohl KM, Sullivan EV, Baker FC, Brown SA, Clark DB, Colrain IM, DeBellis M, Goldston D, Nagel BJ, Nooner KB, Tapert SF, Pfefferbaum A: The <a href="#">NCANDA PUBLIC 6Y STRUCTURAL V01</a> Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse	2023
Pohl KM, Sullivan EV, Baker FC, Brown SA, Clark DB, Colrain IM, DeBellis M, Goldston D, Nagel BJ, Nooner KB, Tapert SF, Pfefferbaum A: The <a href="#">NCANDA PUBLIC 6Y RESTINGSTATE V01</a> Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse	2023
Pohl, K.M., Sullivan, E.V., Podhajsky S, Baker FC, Brown SA, Clark DB, Colrain IM, DeBellis M, Goldston D, Nagel BJ, Nooner KB, Tapert SF, Pfefferbaum, A.: The <a href="#">NCANDA PUBLIC 6Y REDCAP V04</a> Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse	2023

- Pohl, K.M., Sullivan, E.V., Podhajsky S, Baker FC, Brown SA, Clark DB, Colrain IM, DeBellis M, Goldston D, Nagel BJ, Nooner KB, Tapert SF, Pfefferbaum, A.: The [NCANDA PUBLIC 6Y REDCAP V03](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse 2023
- Pohl, K.M., Sullivan, E.V., Podhajsky S, Baker FC, Brown SA, Clark DB, Colrain IM, DeBellis M, Goldston D, Nagel BJ, Nooner KB, Tapert SF, Pfefferbaum, A.: The [NCANDA PUBLIC 6Y REDCAP V02](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse 2023
- Cummins K, Henthorn T, Pohl KM, Sullivan EV, Podhajsky S, Baker FC, Brown SA, Clark DB, Colrain IM, DeBellis M, Goldston D, Nagel BJ, Nooner KB, Tapert SF, Pfefferbaum A: The [NCANDA PUBLIC 6Y MOBILE V01](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse 2023
- Pohl, K.M., Podhajsky S., Sullivan, E.V., Pfefferbaum, A.: The [NCANDA PUBLIC 5Y STRUCTURAL V01](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse 2023
- Pohl, K.M., Sullivan, E.V., Podhajsky S., Baker FC, Brown SA, Clark DB, Colrain IM, DeBellis M, Nagel BJ, Nooner KB, Tapert SF, Pfefferbaum, A.: The [NCANDA PUBLIC 5Y REDCAP V02](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse 2023
- Pohl, K.M., Podhajsky, S., Sullivan, E.V., Pfefferbaum, A.: The [NCANDA PUBLIC 5Y REDCAP V01](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse 2023
- Pohl, K.M., Podhajsky S., Sullivan, E.V., Pfefferbaum, A.: The [NCANDA PUBLIC 4Y RESTINGSTATE V01](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse 2023
- Pohl K.M, Sullivan EV, Podhajsky S., Baker FC, Brown SA, Clark DB, Colrain IM, Goldston D, Nagel BJ, Nooner KB, Tapert SF, Pfefferbaum, A.: The [NCANDA PUBLIC 4Y REDCAP V02](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse 2023
- Pohl, K.M., Sullivan, E.V., Pfefferbaum, A.: The [NCANDA PUBLIC 4Y REDCAP V01](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse. 2022
- Pohl, K.M., Sullivan, E.V., Pfefferbaum, A.: The [NCANDA PUBLIC 4Y STRUCTURAL V01](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse. 2022
- Pohl, K.M., Sullivan, E.V., Pfefferbaum, A.: [The NCANDA PUBLIC 4Y DIFFUSION V01](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse. 2022
- Pohl, K.M., Sullivan, E.V., Pfefferbaum, A.: The [NCANDA PUBLIC 3Y REDCAP V01](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse. 2020
- Pohl, K.M., Sullivan, E.V., Pfefferbaum, A.: The [NCANDA PUBLIC 3Y STRUCTURAL V01](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse. 2020
- Pohl, K.M., Sullivan, E.V., Pfefferbaum, A.: The [NCANDA PUBLIC 2Y RESTINGSTATE V01](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse. 2020
- Pohl, K.M., Sullivan, E.V., Pfefferbaum, A.: The [NCANDA PUBLIC 2Y STRUCTURAL V02](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse. 2020

- Pohl, K.M., Podhajsky, S., Sullivan, E.V., Pfefferbaum, A.: The [NCANDA PUBLIC 1Y REDCAP V02](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse. 2020
- Pohl, K.M., Podhajsky, S., Sullivan, E.V., Pfefferbaum, A.: The [NCANDA PUBLIC 1Y STRUCTURAL V01](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse. 2020
- Pohl, K.M., Podhajsky, S., Sullivan, E.V., Pfefferbaum, A.: The [NCANDA PUBLIC 1Y RESTINGSTATE V01](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse. 2020
- Pohl, K.M., Podhajsky S., Sullivan, E.V., Pfefferbaum, A.: The [NCANDA PUBLIC 1Y DIFFUSION V01](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse. 2020
- Pohl, K.M., Sullivan, E.V., Pfefferbaum, A.: The [NCANDA PUBLIC 2Y STRUCTURAL V01](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse. 2018
- Pohl, K.M., Podhajsky, S., Sullivan, E.V., Pfefferbaum, A.: The [NCANDA PUBLIC 1Y REDCAP V01](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse. 2018
- Pohl, K.M., Sullivan, E.V., Pfefferbaum, A.: The [NCANDA PUBLIC BASE REDCAP V02](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse. 2018
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- Pohl, K.M., Sullivan, E.V., Pfefferbaum, A.: The [NCANDA PUBLIC BASE STRUCTURAL V01](#) Data Release of the National Consortium on Alcohol and NeuroDevelopment in Adolescence (NCANDA), Sage Bionetworks Synapse. 2017
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### **ABCD Neurocognitive Prediction Challenge 2019**

- Pohl, K.M., Thompson, W.K., Adeli, E.: [ABCD-NP-Challenge 2019](#), NIH NDAR Portal 2019