



Edith Vioni Sullivan

Professor of Psychiatry and Behavioral Sciences (Major Laboratories and Clinical Translational Neurosciences Incubator)

Bio

BIO

My commitment to research on human alcoholism began about 30 years ago when I joined the Neuroimaging Group at Stanford. I brought to this research collaboration my background as an experimental neuropsychologist working in amnesic syndromes, Alzheimer's disease, and Parkinson's disease at MIT and gained from the collaboration experience and expertise as a brain imaging scientist at Stanford. These experiences provided complementary understanding on the potential of establishing brain structure-function relations for the first time in Alcohol Use Disorder (AUD). This background led to the development of my program of study in AUD, focusing on faulty frontocerebellar circuitry as underlying a selective subset of cognitive and motor dysfunctions commonly expressed in people with AUD. Toward this end, I was granted a MERIT Award, which resulted in dozens of publications describing cognitive, sensory, and motor sequelae of chronic, excessive alcohol drinking and identifying neural mechanisms of impairment. This project became the centerpiece of my program of research that has included international studies on AUD, investigation of cognitive and motor process selectively disrupted in AUD+HIV infection comorbidity, comparison brain structural and functional profiles of Mild Cognitive Impairment and AUD, and rodent models of chronic exposure to high levels of alcohol. I am also engaged in a multi-site consortium study aimed at determining the developmental trajectories of brain, neuropsychological, and emotional development of adolescents and to track deviations from normal trajectories in adolescents who initiate excessive alcohol drinking and measure recovery in those who stop drinking. Coupled with my decade long NIAAA K05 Senior Mentor Award, this integrated research program provides a rich environment for mentoring promising young investigators.

ACADEMIC APPOINTMENTS

- Professor, Psychiatry and Behavioral Sciences
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Review Editor, Alcohol: Clinical and Experimental Research, (2004- present)
- Faculty, Faculty Opinions, (2018- present)
- Review Editor, Frontiers in Human Neuroscience, (2009- present)
- Section Editor, Neurobiology of Aging, (2009-2013)
- Editor-in-Chief, Neuropsychology Review, (2009-2015)
- Review Editor, Hippocampus, (2003- present)

HONORS AND AWARDS

- Henri Begleiter Award for Excellence in Research, Research Society on Alcoholism (2019)
- Doctorate Honoris Causa, EPHE, Sorbonne, France (2018)

- Fellow, American College of Neuropsychopharmacology (2015)
- Distinguished Career Award, International Neuropsychological Society (2014)
- Bowles Lectureship Award, University of North Carolina (2013)
- Keller Honorary Lectureship Award, NIAAA (2013)
- Distinguished Researcher Award, Research Society on Alcoholism (2011)
- Fellow, American Psychological Association (2008)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Program Committee Member, Society of Biological Psychiatry (2019 - 2021)
- NIAAA Advisory Council Member, NIAAA of the NIH (2017 - 2022)
- Editorial Advisory Committee Member, Alcohol Research: Current Reviews of NIAAA (2007 - 2019)

PROFESSIONAL EDUCATION

- Ph.D., University of Connecticut , Experimental Psychology (1975)
- M.A., University of Connecticut , Experimental Psychology (1973)
- B.A., University of Connecticut , Experimental Psychology (1969)

LINKS

- Brain Addiction Study: <http://med.stanford.edu/brainaddictionlab.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Application of neuroimaging modalities and component process analysis of cognitive, sensory, and motor functions to identify brain structural and functional mechanisms disrupted in diseases affecting the brain: alcohol use disorder (AUD), HIV infection, dementia, and normal aging from adolescence through senescence. Structural and functional MRI, MR spectroscopy, and MR diffusion tensor imaging are applied in animal models of alcoholism in parallel with the human studies. A multi-site research project prospectively examines the development of the adolescent brain and neuropsychological function and how initiation of hazardous drinking and consumption of other drugs of abuse alter the normal trajectory of brain structure and function (National Consortium on Alcohol and NeuroDevelopment in Adolescence: NCANDA.org). My long-standing NIAAA-funded project focuses on the potential interaction of drinking—whether at AUD or lower levels—and dementia.

Publications

PUBLICATIONS

- **Data-driven discovery of movement-linked heterogeneity in neurodegenerative diseases** *NATURE MACHINE INTELLIGENCE*
Endo, M., Nerrise, F., Zhao, Q., Sullivan, E. V., Fei-Fei, L., Henderson, V. W., Pohl, K. M., Poston, K. L., Adeli, E.
2024
- **Contributions of Cerebral White Matter Hyperintensities to Postural Instability in Aging with and without Alcohol Use Disorder.** *Biological psychiatry. Cognitive neuroscience and neuroimaging*
Sullivan, E. V., Zahr, N. M., Zhao, Q., Pohl, K. M., Sassoon, S. A., Pfefferbaum, A.
2024
- **Contributions of cerebral white matter hyperintensities, age, and pedal perception to postural sway in people living with HIV.** *AIDS (London, England)*
Sullivan, E. V., Zahr, N. M., Zhao, Q., Pohl, K. M., Sassoon, S. A., Pfefferbaum, A.
2024

- **Frontal cortical volume deficits as enduring evidence of childhood abuse in community adults with AUD and HIV infection comorbidity.** *Neurobiology of stress*
Sassoon, S. A., Fama, R., Pohl, K. M., Pfefferbaum, A., Sullivan, E. V.
2024; 29: 100608
- **Brain Volume in Fetal Alcohol Spectrum Disorders Over a 20-Year Span.** *JAMA network open*
Pfefferbaum, A., Sullivan, E. V., Pohl, K. M., Bischoff-Grethe, A., Stoner, S. A., Moore, E. M., Riley, E. P.
2023; 6 (11): e2343618
- **White matter microstructural integrity continues to develop from adolescence to young adulthood in mice and humans: Same phenotype, different mechanism.** *Neuroimage. Reports*
Piekarski, D. J., Zahr, N. M., Zhao, Q., Ferizi, U., Pohl, K. M., Sullivan, E. V., Pfefferbaum, A.
2023; 3 (3)
- **Age-Accelerated Increase of White Matter Hyperintensity Volumes is Exacerbated by Heavy Alcohol Use in People Living with HIV.** *Biological psychiatry*
Pfefferbaum, A., Zhao, Q., Pohl, K. M., Sassoon, S. A., Zahr, N. M., Sullivan, E. V.
2023
- **Influence of childhood trauma, HIV infection, alcohol use disorder, and resilience on health-related quality of life in adulthood.** *Journal of psychiatric research*
Sassoon, S. A., Fama, R., Le Berre, A., Muller-Oehring, E. M., Zahr, N. M., Pfefferbaum, A., Sullivan, E. V.
2023; 163: 230-239
- **Imaging of Brain Structural and Functional Effects in People With Human Immunodeficiency Virus.** *The Journal of infectious diseases*
O'Connor, E. E., Sullivan, E. V., Chang, L., Hammoud, D. A., Wilson, T. W., Ragin, A. B., Meade, C. S., Coughlin, J., Ances, B. M.
2023; 227 (Supplement_1): S16-S29
- **Postural instability in HIV infection: relation to central and peripheral nervous system markers.** *AIDS (London, England)*
Sullivan, E. V., Zahr, N. M., Sassoon, S. A., Pohl, K. M., Pfefferbaum, A.
2023
- **Alcohol use disorder: Neuroimaging evidence for accelerated aging of brain morphology and hypothesized contribution to age-related dementia.** *Alcohol (Fayetteville, N.Y.)*
Sullivan, E. V., Pfefferbaum, A.
2022
- **Prior test experience confounds longitudinal tracking of adolescent cognitive and motor development.** *BMC medical research methodology*
Sullivan, E. V., Thompson, W. K., Brumback, T., Prouty, D., Tapert, S. F., Brown, S. A., De Bellis, M. D., Nooner, K. B., Baker, F. C., Colrain, I. M., Clark, D. B., Nagel, B. J., Pohl, et al
2022; 22 (1): 177
- **Disruption of cerebellar-cortical functional connectivity predicts balance instability in alcohol use disorder.** *Drug and alcohol dependence*
Müller-Oehring, E. M., Schulte, T., Pfefferbaum, A., Sullivan, E. V.
2022; 235: 109435
- **Aging Accelerates Postural Instability in HIV Infection: Contributing Sensory Biomarkers.** *Journal of neuroimmune pharmacology : the official journal of the Society on NeuroImmune Pharmacology*
Sullivan, E. V., Zahr, N. M., Sassoon, S. A., Pfefferbaum, A.
2022
- **Memory impairment in alcohol use disorder is associated with regional frontal brain volumes.** *Drug and alcohol dependence*
Fama, R., Le Berre, A., Sassoon, S. A., Zahr, N. M., Pohl, K. M., Pfefferbaum, A., Sullivan, E. V.
2021; 228: 109058
- **Altered Cerebro-Cerebellar Dynamic Functional Connectivity in Alcohol Use Disorder: a Resting-State fMRI Study.** *Cerebellum (London, England)*
Abdallah, M., Zahr, N. M., Saranathan, M., Honnorat, N., Farrugia, N., Pfefferbaum, A., Sullivan, E. V., Chanraud, S.
2021
- **Performance ramifications of abnormal functional connectivity of ventral posterior lateral thalamus with cerebellum in abstinent individuals with Alcohol Use Disorder.** *Drug and alcohol dependence*
Honnorat, N. n., Saranathan, M. n., Sullivan, E. V., Pfefferbaum, A. n., Pohl, K. M., Zahr, N. M.

2021; 220: 108509

- **Trajectories of brain development reveal times of risk and factors promoting resilience to alcohol use during adolescence.** *International review of neurobiology*
Lannoy, S., Sullivan, E. V.
2021; 160: 85-116
- **Attenuated cerebral blood flow in frontolimbic and insular cortices in Alcohol Use Disorder: Relation to working memory.** *Journal of psychiatric research*
Sullivan, E. V., Zhao, Q. n., Pohl, K. M., Zahr, N. M., Pfefferbaum, A. n.
2021; 136: 140–48
- **Association of Heavy Drinking With Deviant Fiber Tract Development in Frontal Brain Systems in Adolescents.** *JAMA psychiatry*
Zhao, Q., Sullivan, E. V., Honnorat, N., Adeli, E., Podhajsky, S., De Bellis, M. D., Voyvodic, J., Nooner, K. B., Baker, F. C., Colrain, I. M., Tapert, S. F., Brown, S. A., Thompson, et al
2020
- **Why Timing Matters in Alcohol Use Disorder Recovery.** *The American journal of psychiatry*
Sullivan, E. V.
2020; 177 (11): 1022–24
- **The Many Levels of Relapse to Drinking: Commentary on Meyerhoff and Durazzo (ACER 2020).** *Alcoholism, clinical and experimental research*
Sullivan, E. V.
2020
- **Accelerated aging and motor control deficits are related to regional deformation of central cerebellar white matter in alcohol use disorder** *ADDICTION BIOLOGY*
Zhao, Q., Pfefferbaum, A., Podhajsky, S., Pohl, K. M., Sullivan, E. V.
2020; 25 (3)
- **Graded Cerebellar Lobular Volume Deficits in Adolescents and Young Adults with Fetal Alcohol Spectrum Disorders (FASD).** *Cerebral cortex (New York, N.Y. : 1991)*
Sullivan, E. V., Moore, E. M., Lane, B., Pohl, K. M., Riley, E. P., Pfefferbaum, A.
2020
- **Disturbed sensory physiology underlies poor balance and disrupts activities of daily living in alcohol use disorder.** *Addiction biology*
Sullivan, E. V., Zahr, N. M., Sassoon, S. A., Pfefferbaum, A. n.
2020: e12966
- **Alcohol's Unique Effects on Cognition in Women: A 2020 (Re)view to Envision Future Research and Treatment.** *Alcohol research : current reviews*
Fama, R., Le Berre, A., Sullivan, E. V.
2020; 40 (2): 03
- **Disturbed Cerebellar Growth Trajectories in Adolescents Who Initiate Alcohol Drinking.** *Biological psychiatry*
Sullivan, E. V., Brumback, T., Tapert, S. F., Brown, S. A., Baker, F. C., Colrain, I. M., Prouty, D., De Bellis, M. D., Clark, D. B., Nagel, B. J., Pohl, K. M., Pfefferbaum, A.
2019
- **Brain-Behavior Relations and Effects of Aging and Common Comorbidities in Alcohol Use Disorder: A Review** *NEUROPSYCHOLOGY*
Sullivan, E., Pfefferbaum, A.
2019; 33 (6): 760–80
- **Accelerated aging and motor control deficits are related to regional deformation of central cerebellar white matter in alcohol use disorder.** *Addiction biology*
Zhao, Q., Pfefferbaum, A., Podhajsky, S., Pohl, K. M., Sullivan, E. V.
2019
- **Relations between cognitive and motor deficits and regional brain volumes in individuals with alcoholism.** *Brain structure & function*
Fama, R. n., Le Berre, A. P., Sassoon, S. A., Zahr, N. M., Pohl, K. M., Pfefferbaum, A. n., Sullivan, E. V.
2019
- **Convergence of three parcellation approaches demonstrating cerebellar lobule volume deficits in Alcohol Use Disorder.** *NeuroImage. Clinical*

- Sullivan, E. V., Zahr, N. M., Saranathan, M. n., Pohl, K. M., Pfefferbaum, A. n.
2019; 24: 101974
- **Cognitive impairment severity in relation to signs of subclinical Wernicke's encephalopathy in HIV and alcoholism comorbidity.** *AIDS (London, England)*
Le Berre, A. P., Fama, R. n., Sassoos, S. A., Zahr, N. M., Pfefferbaum, A. n., Sullivan, E. V.
2019
 - **Accelerated and Premature Aging Characterizing Regional Cortical Volume Loss in Human Immunodeficiency Virus Infection: Contributions From Alcohol, Substance Use, and Hepatitis C Coinfection.** *Biological psychiatry. Cognitive neuroscience and neuroimaging*
Pfefferbaum, A., Zahr, N. M., Sassoos, S. A., Kwon, D., Pohl, K. M., Sullivan, E. V.
2018
 - **Liability of Youthful Alcohol Misuse.** *Biological psychiatry. Cognitive neuroscience and neuroimaging*
Sullivan, E. V.
2018; 3 (7): 575–76
 - **The Role of Aging, Drug Dependence, and Hepatitis C Comorbidity in Alcoholism Cortical Compromise** *JAMA PSYCHIATRY*
Sullivan, E. V., Zahr, N. M., Sassoos, S. A., Thompson, W. K., Kwon, D., Pohl, K. M., Pfefferbaum, A.
2018; 75 (5): 474–83
 - **Altered Brain Developmental Trajectories in Adolescents After Initiating Drinking.** *The American journal of psychiatry*
Pfefferbaum, A., Kwon, D., Brumback, T., Thompson, W. K., Cummins, K., Tapert, S. F., Brown, S. A., Colrain, I. M., Baker, F. C., Prouty, D., De Bellis, M. D., Clark, D. B., Nagel, et al
2018; 175 (4): 370–80
 - **Metadata-conditioned generative models to synthesize anatomically-plausible 3D brain MRIs.** *Medical image analysis*
Peng, W., Bosschieter, T., Ouyang, J., Paul, R., Sullivan, E. V., Pfefferbaum, A., Adeli, E., Zhao, Q., Pohl, K. M.
2024; 98: 103325
 - **Multi-dimensional predictors of first drinking initiation and regular drinking onset in adolescence: A prospective longitudinal study.** *Developmental cognitive neuroscience*
Nguyen-Louie, T. T., Thompson, W. K., Sullivan, E. V., Pfefferbaum, A., Gonzalez, C., Ebersson-Shumate, S. C., Wade, N. E., Clark, D. B., Nagel, B. J., Baker, F. C., Luna, B., Nooner, K. B., de Zambotti, et al
2024; 69: 101424
 - **Identifying high school risk factors that forecast heavy drinking onset in understudied young adults.** *Developmental cognitive neuroscience*
Zhao, Q., Paschali, M., Dehoney, J., Baker, F. C., de Zambotti, M., De Bellis, M. D., Goldston, D. B., Nooner, K. B., Clark, D. B., Luna, B., Nagel, B. J., Brown, S. A., Tapert, et al
2024; 68: 101413
 - **Identifying the role of (dis)inhibition in the vicious cycle of substance use through ecological momentary assessment and resting-state fMRI.** *Translational psychiatry*
Chirokoff, V., Berthoz, S., Fatseas, M., Misdrahi, D., Dupuy, M., Abdallah, M., Serre, F., Auriacombe, M., Pfefferbaum, A., Sullivan, E. V., Chanraud, S.
2024; 14 (1): 260
 - **Multi-level prediction of substance use: Interaction of white matter integrity, resting-state connectivity and inhibitory control measured repeatedly in every-day life.** *Addiction biology*
Chirokoff, V., Pohl, K. M., Berthoz, S., Fatseas, M., Misdrahi, D., Serre, F., Auriacombe, M., Pfefferbaum, A., Sullivan, E. V., Chanraud, S.
2024; 29 (5): e13400
 - **Craving dynamics and related cerebral substrates predict timing of use in alcohol, tobacco, and cannabis use disorders.** *Addiction neuroscience*
Chirokoff, V., Dupuy, M., Abdallah, M., Fatseas, M., Serre, F., Auriacombe, M., Misdrahi, D., Berthoz, S., Swendsen, J., Sullivan, E. V., Chanraud, S.
2023; 9
 - **Poor subjective sleep reported by people living with HIV is associated with impaired working memory.** *NeuroImmune pharmacology and therapeutics*
Zahr, N. M., Sullivan, E. V., Pfefferbaum, A.
2023; 2 (2): 127-137
 - **Balance and motor speed in alcohol use disorder and mild cognitive impairment**
Sassoos, S. A., Fama, R., Leonard, M., Machitar, K. L., Pfefferbaum, A., Sullivan, E. V.
WILEY.2023: 540

- **Machine learning reveals alcohol-related disruption in the neurocircuitry of individuals**
Pohl, K. M., Zhao, Q., Pfefferbaum, A., Sullivan, E. V.
WILEY.2023: 80-81
- **Neuroimaging evidence for accelerated aging of brain morphology in alcohol use disorder**
Sullivan, E. V., Zahr, N. M., Pfefferbaum, A.
WILEY.2023: 41
- **Episodic memory deficit in HIV infection: common phenotype with Parkinson's disease, different neural substrates.** *Brain structure & function*
Fama, R., Müller-Oehring, E. M., Levine, T. F., Sullivan, E. V., Sassoon, S. A., Asok, P., Brontë-Stewart, H. M., Poston, K. L., Pohl, K. M., Pfefferbaum, A., Schulte, T.
2023
- **Serum biomarkers of liver fibrosis identify changes in striatal metabolite levels.** *Research square*
Zahr, N., Sullivan, E., Pfefferbaum, A.
2023
- **Serum Biomarkers of Liver Fibrosis Identify Changes to Striatal Metabolites Consistent With Lipid Accumulation**
Zahr, N., Sullivan, E., Pfefferbaum, A.
SPRINGERNATURE.2022: 166-167
- **Serum Biomarkers of Liver Fibrosis Identify Changes to Striatal Metabolites Consistent With Lipid Accumulation**
Zahr, N., Sullivan, E., Pfefferbaum, A.
SPRINGERNATURE.2022: 166-167
- **Multi-atlas thalamic nuclei segmentation on standard T1-weighted MRI with application to normal aging.** *Human brain mapping*
Pfefferbaum, A., Sullivan, E. V., Zahr, N. M., Pohl, K. M., Saranathan, M.
2022
- **Alcohol's effects on the mouse brain are modulated by age and sex** *ADDICTION BIOLOGY*
Piekarski, D. J., Zahr, N. M., Zhao, Q., Sullivan, E., Pfefferbaum, A.
2022; 27 (5)
- **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 : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
Endo, M., Poston, K. L., Sullivan, E. V., Fei-Fei, L., Pohl, K. M., Adeli, E.
2022; 13438: 130-139
- **Alcohol's effects on the mouse brain are modulated by age and sex.** *Addiction biology*
Piekarski, D. J., Zahr, N. M., Zhao, Q., Sullivan, E. V., Pfefferbaum, A.
2022; 27 (5): e13209
- **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*
Zhao, Q., Wang, K., Kiss, O., Yuksel, D., de Zambotti, M., Clark, D. B., Goldston, D. B., Nooner, K. B., Brown, S. A., Tapert, S. F., Thompson, W. K., Nagel, B. J., Pfefferbaum, et al
2022; 19 (16)
- **Poor subjective sleep predicts compromised quality of life but not cognitive impairment in abstinent individuals with Alcohol Use Disorder.** *Alcohol (Fayetteville, N.Y.)*
Piekarski, D., Sullivan, E. V., Pfefferbaum, A., Zahr, N. M.
2022
- **A prospective study revealing a compounded burden of COVID-19, sex, and clinical diagnosis of alcohol use disorder and HIV infection on quality of life, anxiety, and alcohol use.** *Journal of psychiatric research*
Lannoy, S., Fama, R., Sassoon, S. A., Le Berre, A., Asok, P., Zahr, N. M., Pfefferbaum, A., Sullivan, E. V.
2022; 152: 152-159
- **DEEP LEARNING IDENTIFIES EFFECTS OF ALCOHOL DRINKING ON THE EARLY ADULT BRAIN**
Pohl, K. M., Zhao, Q., Adeli, E., Sullivan, E. V., Pfefferbaum, A.

WILEY.2022: 64A

- **DIFFERENTIAL PREDICTORS OF QUALITY OF LIFE IN ALCOHOL USE DISORDER, HIV INFECTION, AND THEIR COMORBIDITY**
Sassoon, S. A., Fama, R., Le Berre, A., Zahr, N. M., Pfefferbaum, A., Sullivan, E.
WILEY.2022: 114A
- **PRELIMINARY EVIDENCE FOR ELEVATED ML9 IN THE THALAMUS OF INDIVIDUALS WITH AUD RELATIVE TO HEALTHY CONTROLS**
Zahr, N. M., Sullivan, E. V., Pfefferbaum, A.
WILEY.2022: 203A
- **GaitForeMer: Self-supervised Pre-training of Transformers via Human Motion Forecasting for Few-Shot Gait Impairment Severity Estimation**
Endo, M., Poston, K. L., Sullivan, E. V., Fei-Fei, L., Pohl, K. M., Adeli, E., Wang, L., Dou, Q., Fletcher, P. T., Speidel, S., Li, S.
SPRINGER INTERNATIONAL PUBLISHING AG.2022: 130-139
- **Neurofunctional characteristics of executive control in older people with HIV infection: a comparison with Parkinson's disease.** *Brain imaging and behavior*
Müller-Oehring, E. M., Hong, J. Y., Poston, K. L., Brontë-Stewart, H. M., Sullivan, E. V., McGlynn, L., Schulte, T.
2022
- **Growth Trajectories of Cognitive and Motor Control in Adolescence: How Much Is Development and How Much Is Practice?** *NEUROPSYCHOLOGY*
Lannoy, S., Pfefferbaum, A., Le Berre, A., Thompson, W. K., Brumback, T., Schulte, T., Pohl, K. M., De Bellis, M. D., Nooner, K. B., Baker, F. C., Prouty, D., Colrain, I. M., Nagel, et al
2021
- **Adolescent Binge Drinking Is Associated With Accelerated Decline of Gray Matter Volume.** *Cerebral cortex (New York, N.Y. : 1991)*
Infante, M. A., Ebersson, S. C., Zhang, Y., Brumback, T., Brown, S. A., Colrain, I. M., Baker, F. C., Clark, D. B., De Bellis, M. D., Goldston, D., Nagel, B. J., Nooner, K. B., Zhao, et al
2021
- **Risk for depression tripled during the COVID-19 pandemic in emerging adults followed for the last 8 years.** *Psychological medicine*
Alzueta, E., Podhajsky, S., Zhao, Q., Tapert, S. F., Thompson, W. K., de Zambotti, M., Yuksel, D., Kiss, O., Wang, R., Volpe, L., Prouty, D., Colrain, I. M., Clark, et al
2021: 1-8
- **Multi-label, multi-domain learning identifies compounding effects of HIV and cognitive impairment.** *Medical image analysis*
Zhang, J., Zhao, Q., Adeli, E., Pfefferbaum, A., Sullivan, E. V., Paul, R., Valcour, V., Pohl, K. M.
2021; 75: 102246
- **Self-Supervised Longitudinal Neighbourhood Embedding.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*
Ouyang, J., Zhao, Q., Adeli, E., Sullivan, E. V., Pfefferbaum, A., Zaharchuk, G., Pohl, K. M.
2021; 12902: 80-89
- **Longitudinal Pooling & Consistency Regularization to Model Disease Progression From MRIs.** *IEEE journal of biomedical and health informatics*
Ouyang, J., Zhao, Q., Sullivan, E. V., Pfefferbaum, A., Tapert, S. F., Adeli, E., Pohl, K. M.
2021; 25 (6): 2082-2092
- **GROWTH TRAJECTORIES OF COGNITIVE AND MOTOR CONTROL IN ADOLESCENCE: HOW MUCH IS DEVELOPMENT AND HOW MUCH IS PRACTICE?**
Lannoy, S.
WILEY.2021: 188A
- **RELATIONS OF RISK FACTORS TO HEALTH-RELATED QUALITY OF LIFE IN ALCOHOL USE DISORDER, HIV, AND THEIR COMORBIDITY**
Sassoon, S. A., Fama, R., Le Berre, A., Asok, P., Podhajsky, S., Zahr, N. M., Sullivan, E. V., Pfefferbaum, A.
WILEY.2021: 120A
- **ALCOHOL AND SUBSTANCE MISUSE: EFFECTS ON EXPLICIT MEMORY AND THE ROLE OF REGIONAL FRONTAL VOLUMES**
Fama, R., Le Berre, A. P., Sassoon, S. A., Zahr, N. M., Pohl, K. M., Pfefferbaum, A., Sullivan, E. V.
WILEY.2021: 187A-188A
- **YOUNG TEENS WHO INITIATE HEAVY DRINKING RISK DEVIANT FIBER TRACT DEVELOPMENT IN FRONTAL BRAIN SYSTEMS**

Zhao, Q., Sullivan, E. V., Honnorat, N., Adeli, E., Podhajsky, S., De Bellis, M. D., Voyvodic, J., Nooner, K. B., Baker, F. C., Colrain, I. M., Tapert, S. F., Brown, S. A., Thompson, et al
WILEY.2021: 74A

- **Preliminary Evidence for a Relationship between Elevated Plasma TNF# and Smaller Subcortical White Matter Volume in HCV Infection Irrespective of HIV or AUD Comorbidity.** *International journal of molecular sciences*
Zahr, N. M., Pohl, K. M., Kwong, A. J., Sullivan, E. V., Pfefferbaum, A.
2021; 22 (9)
- **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*
Zahr, N. M., Pohl, K. M., Kwong, A. J., Sullivan, E. V., Pfefferbaum, A.
2021; 22 (9)
- **Emotional processes in binge drinking: A systematic review and perspective.** *Clinical psychology review*
Lannoy, S., Duka, T., Carbia, C., Billieux, J., Fontesse, S., Dormal, V., Gierski, F., Lopez-Caneda, E., Sullivan, E. V., Maurage, P.
2021; 84: 101971
- **Quantifying Parkinson's disease motor severity under uncertainty using MDS-UPDRS videos.** *Medical image analysis*
Lu, M., Zhao, Q., Poston, K. L., Sullivan, E. V., Pfefferbaum, A., Shahid, M., Katz, M., Kouhsari, L. M., Schulman, K., Milstein, A., Niebles, J. C., Henderson, V. W., Fei-Fei, et al
2021; 73: 102179
- **Self-supervised Longitudinal Neighbourhood Embedding**
Ouyang, J., Zhao, Q., Adeli, E., Sullivan, E., Pfefferbaum, A., Zaharchuk, G., Pohl, K. M., DeBruijne, M., Cattin, P. C., Cotin, S., Padoy, N., Speidel, S., Zheng, et al
SPRINGER INTERNATIONAL PUBLISHING AG.2021: 80-89
- **Representation Learning with Statistical Independence to Mitigate Bias.** *IEEE Winter Conference on Applications of Computer Vision. IEEE Winter Conference on Applications of Computer Vision*
Adeli, E., Zhao, Q., Pfefferbaum, A., Sullivan, E. V., Fei-Fei, L., Niebles, J. C., Pohl, K. M.
2021; 2021: 2512-2522
- **Alcohol Use Disorder and Its Comorbidity With HIV Infection Disrupts Anterior Cingulate Cortex Functional Connectivity.** *Biological psychiatry. Cognitive neuroscience and neuroimaging*
Honnorat, N., Fama, R., Muller-Oehring, E. M., Zahr, N. M., Pfefferbaum, A., Sullivan, E. V., Pohl, K. M.
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