

Stanford



Kathleen Poston, MD, MS

Edward F. and Irene Thiele Pimley Professor of Neurology and the Neurological Sciences and Professor, by courtesy, of Neurosurgery

Neurology & Neurological Sciences

CLINICAL OFFICE (PRIMARY)

- Stanford Neuroscience Health Center

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ACADEMIC CONTACT INFORMATION

- Academic Contact

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Bio

BIO

Dr. Kathleen Poston is Professor of Neurology & Neurological Sciences and (by courtesy) Neurosurgery at Stanford University Medical Center. She received her Bachelor's of Science in Bioengineering at the University of Pennsylvania, her Master's Degree in Biomedical Engineering and her MD at Vanderbilt University. She completed her Neurology residency training at UCSF, where she was Co-Chief Resident. She also completed a fellowship in clinical Movement Disorders under the mentorship of Dr. Stanley Fahn at Columbia University and post-doctoral research training in Functional Neuroimaging with Dr. David Eidelberg at the Feinstein Institute.

Dr. Poston's research focuses on developing imaging and biological biomarkers to advance our understanding of the pathophysiology underlying the cognitive, behavioral, and motor symptoms characteristic of Parkinson's disease and related movement disorders. Her current studies focus on cognitive and memory problems in people with Parkinson's disease and Dementia with Lewy Bodies. She has been awarded grant funding by the NIH and the Michael J. Fox Foundation for Parkinson's disease research. She is Co-Director for the Pacific Udall Center, which is an NINDS funded Morris K. Udall Center of Excellence for Parkinson's disease Research. She serves on the Executive Steering Committee for the Michael J Fox Foundation sponsored Parkinsons Progression Marker Initiative (PPMI). She is also the Research Education Component (REC) Leader for the Stanford Alzheimer's disease Center (ADRC), which is funded by the National Institute for Aging and focuses on early cognitive problems in both Parkinson's disease and Alzheimer's disease.

CLINICAL FOCUS

- Parkinson Disease
- Dementia with Lewy Bodies
- Parkinsonian Disorders
- Multiple System Atrophy
- Palsy, Progressive Supranuclear
- Corticobasal Syndrome
- Clinical Neurophysiology

ACADEMIC APPOINTMENTS

- Professor - University Medical Line, Neurology & Neurological Sciences
- Professor - University Medical Line (By courtesy), Neurosurgery
- Member, Bio-X
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Chief, Movement Disorders Division, (2021- present)

HONORS AND AWARDS

- Lysia Forno Award for Teaching Excellence, Stanford University (2009-2010)

PROFESSIONAL EDUCATION

- Fellowship: Columbia University Medical Center (2008) NY
- Residency: University of California San Francisco (2006) CA
- Internship: University of California San Francisco (2003) CA
- Medical Education: Vanderbilt University School of Medicine (2002) TN
- Board Certification: Neurology, American Board of Psychiatry and Neurology (2007)
- Post-Doc, Feinstein Institute , Functional Neuroimaging (2009)
- BSE, University of Pennsylvania , Bioengineering
- MS, Vanderbilt University , Bioengineering (1998)

LINKS

- Poston Lab: <http://neurology.stanford.edu/labs/postonlab/>
- ADRC: <http://med.stanford.edu/adrc.html>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Poston's research applies multi-modal neuroimaging to study cognitive impairment and dementia in patients with Parkinson's disease (PD), Lewy Body Dementia (LBD), and other parkinsonian disorders. Dementia is a highly prevalent and grievous consequences of PD, but it is an essentially untreatable symptom that has multiple, evasive etiologies. Dr. Poston's lab uses neuroimaging to unravel these etiologies by studying brain regions vulnerable to various co-pathologies that develop in PD patients, and then determining the associated changes in clinical progression and symptom evolution. She integrates genetic, biospecimen, and pathological data into these studies, which aid in understanding the biological underpinnings of these neuroimaging studies.

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Carla Abdeinour, Dimuthu Henadeerage Don

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Neurosciences (Phd Program)

Publications

PUBLICATIONS

- **Comprehensive proteomics of CSF, plasma, and urine identify DDC and other biomarkers of early Parkinson's disease.** *Acta neuropathologica*
Rutledge, J., Lehallier, B., Zarifkar, P., Losada, P. M., Shahid-Besanti, M., Western, D., Gorijala, P., Ryman, S., Yutsis, M., Deutsch, G. K., Mormino, E., Trelle, A., Wagner, et al
2024; 147 (1): 52
- **Multiple biomarkers improve diagnostic accuracy across Lewy body and Alzheimer's disease spectra.** *Annals of clinical and translational neurology*
Plastini, M. J., Abdelnour, C., Young, C. B., Wilson, E. N., Shahid-Besanti, M., Lamoureux, J., Andreasson, K. I., Kerchner, G. A., Montine, T. J., Henderson, V. W., Poston, K. L.
2024
- **A biological definition of neuronal #synuclein disease: towards an integrated staging system for research.** *The Lancet. Neurology*
Simuni, T., Chahine, L. M., Poston, K., Brumm, M., Buracchio, T., Campbell, M., Chowdhury, S., Coffey, C., Concha-Marambio, L., Dam, T., DiBiaso, P., Foroud, T., Frasier, et al
2024; 23 (2): 178-190
- **Assessment of heterogeneity among participants in the Parkinson's Progression Markers Initiative cohort using a-synuclein seed amplification: a cross-sectional study** *LANCET NEUROLOGY*
Siderowf, A., Concha-Marambio, L., Lafontant, D., Farris, C. M., Ma, Y., Urenia, P. A., Nguyen, H., Alcalay, R. N., Chahine, L. M., Foroud, T., Galasko, D., Kieburtz, K., Merchant, et al
2023; 22 (5): 407-417
- **Illusory Responses across the Lewy Body Disease Spectrum** *ANNALS OF NEUROLOGY*
Shahid, M., Rawls, A., Ramirez, V., Ryman, S., Santini, V. E., Yang, L., Sha, S. J., Hall, J. N., Montine, T. J., Lin, A., Tian, L., Henderson, V. W., Cholerton, et al
2023
- **Parkinson's Progression Markers Initiative brain autopsy program.** *Parkinsonism & related disorders*
Bukhari, S. A., Nudelman, K. N., Rumbaugh, M., Richeson, P., Fox, E. J., Montine, K. S., Aldecoa, I., Garrido, A., Franz, J., Stadelmann, C., Vonsattel, J. P., Poston, K. L., Foroud, et al
2022; 101: 62-65
- **Multimodal deep learning for Alzheimer's disease dementia assessment.** *Nature communications*
Qiu, S., Miller, M. I., Joshi, P. S., Lee, J. C., Xue, C., Ni, Y., Wang, Y., De Anda-Duran, I., Hwang, P. H., Cramer, J. A., Dwyer, B. C., Hao, H., Kaku, et al
2022; 13 (1): 3404
- **Single-synapse analyses of Alzheimer's disease implicate pathologic tau, DJ1, CD47, and ApoE.** *Science advances*
Phongpreecha, T., Gajera, C. R., Liu, C. C., Vijayaragavan, K., Chang, A. L., Becker, M., Fallahzadeh, R., Fernandez, R., Postupna, N., Sherfield, E., Tebaykin, D., Latimer, C., Shively, et al
1800; 7 (51): eabk0473
- **CD4+ T cells contribute to neurodegeneration in Lewy body dementia.** *Science (New York, N.Y.)*
Gate, D., Tapp, E., Leventhal, O., Shahid, M., Nonninger, T. J., Yang, A. C., Strempfl, K., Unger, M. S., Fehlmann, T., Oh, H., Channappa, D., Henderson, V. W., Keller, et al
2021; eabf7266
- **Cognition at Each Stage of Lewy Body Disease with Co-occurring Alzheimer's Disease Pathology.** *Journal of Alzheimer's disease : JAD*
Ryman, S. G., Yutsis, M., Tian, L., Henderson, V. W., Montine, T. J., Salmon, D. P., Galasko, D., Poston, K. L.
2021
- **Single-cell peripheral immunoprofiling of Alzheimer's and Parkinson's diseases.** *Science advances*
Phongpreecha, T., Fernandez, R., Mrdjen, D., Culos, A., Gajera, C. R., Wawro, A. M., Stanley, N., Gaudilliere, B., Poston, K. L., Aghaeepour, N., Montine, T. J.
2020; 6 (48)
- **Tau PET imaging with 18F-PI-2620 in aging and neurodegenerative diseases.** *European journal of nuclear medicine and molecular imaging*
Mormino, E. C., Toueg, T. N., Azevedo, C. n., Castillo, J. B., Guo, W. n., Nadiadwala, A. n., Corso, N. K., Hall, J. N., Fan, A. n., Trelle, A. N., Harrison, M. B., Hunt, M. P., Sha, et al
2020

- **Substantia Nigra Volume Dissociates Bradykinesia and Rigidity from Tremor in Parkinson's Disease: A 7 Tesla Imaging Study.** *Journal of Parkinson's disease*
Poston, K. L., Ua Cruadhlaioch, M. A., Santoso, L. F., Bernstein, J. D., Liu, T., Wang, Y., Rutt, B., Kerchner, G. A., Zeineh, M. M.
2020; 10 (2): 591–604
- **Soluble TREM2 is elevated in Parkinson's disease subgroups with increased CSF tau.** *Brain : a journal of neurology*
Wilson, E. N., Swarovski, M. S., Linortner, P. n., Shahid, M. n., Zuckerman, A. J., Wang, Q. n., Channappa, D. n., Minhas, P. S., Mhatre, S. D., Plowey, E. D., Quinn, J. F., Zabetian, C. P., Tian, et al
2020
- **Multivariate prediction of dementia in Parkinson's disease.** *NPJ Parkinson's disease*
Phongpreecha, T. n., Cholerton, B. n., Mata, I. F., Zabetian, C. P., Poston, K. L., Aghaeepour, N. n., Tian, L. n., Quinn, J. F., Chung, K. A., Hiller, A. L., Hu, S. C., Edwards, K. L., Montine, et al
2020; 6: 20
- **Clinical and dopamine transporter imaging characteristics of non-manifest LRRK2 and GBA mutation carriers in the Parkinson's Progression Markers Initiative (PPMI): a cross-sectional study.** *The Lancet. Neurology*
Simuni, T., Uribe, L., Cho, H. R., Caspell-Garcia, C., Coffey, C. S., Siderowf, A., Trojanowski, J. Q., Shaw, L. M., Seibyl, J., Singleton, A., Toga, A. W., Galasko, D., Foroud, et al
2019
- **An increased rate of longitudinal cognitive decline is observed in Parkinson's disease patients with low CSF ASS42 and an APOE epsilon4 allele.** *Neurobiology of disease*
Shahid, M., Kim, J., Leaver, K., Hendershott, T., Zhu, D., Cholerton, B., Henderson, V. W., Tian, L., Poston, K. L.
2019
- **Longitudinal Change of Clinical and Biological Measures in Early Parkinson's Disease: Parkinson's Progression Markers Initiative Cohort MOVEMENT DISORDERS**
Simuni, T., Siderowf, A., Lasch, S., Coffey, C. S., Caspell-Garcia, C., Jennings, D., Tanner, C. M., Trojanowski, J. Q., Shaw, L. M., Seibyl, J., Schuff, N., Singleton, A., Kieburz, et al
2018; 33 (5): 771–82
- **Compensatory neural mechanisms in cognitively unimpaired Parkinson disease.** *Annals of neurology*
Poston, K. L., YorkWilliams, S., Zhang, K., Cai, W., Everling, D., Tayim, F. M., Llanes, S., Menon, V.
2016; 79 (3): 448-463
- **Differential diagnosis of parkinsonism: a metabolic imaging study using pattern analysis** *LANCET NEUROLOGY*
Tang, C. C., Poston, K. L., Eckert, T., Feigin, A., Frucht, S., Gudesblatt, M., Dhawan, V., Lesser, M., Vonsattel, J., Fahn, S., Eidelberg, D.
2010; 9 (2): 149-158
- **Impaired 24-h activity patterns are associated with an increased risk of Alzheimer's disease, Parkinson's disease, and cognitive decline.** *Alzheimer's research & therapy*
Winer, J. R., Lok, R., Weed, L., He, Z., Poston, K. L., Mormino, E. C., Zeitzer, J. M.
2024; 16 (1): 35
- **Speech patterns during memory recall relates to early tau burden across adulthood.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Young, C. B., Smith, V., Karjadi, C., Grogan, S. M., Ang, T. F., Insel, P. S., Henderson, V. W., Sumner, M., Poston, K. L., Au, R., Mormino, E. C.
2024
- **Evaluation of ATNPDFramework and Biofluid Markers to Predict Cognitive Decline in Early Parkinson Disease.** *Neurology*
Cousins, K. A., Irwin, D. J., Tropea, T. F., Rhodes, E., Phillips, J., Chen-Plotkin, A. S., Brumm, M. C., Coffey, C. S., Kang, J. H., Simuni, T., Foroud, T. M., Toga, A. W., Tanner, et al
2024; 102 (4): e208033
- **Post-translational modifications linked to preclinical Alzheimer's disease-related pathological and cognitive changes.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Abiose, O., Rutledge, J., Moran-Losada, P., Belloy, M. E., Wilson, E. N., He, Z., Trelle, A. N., Channappa, D., Romero, A., Park, J., Yutsis, M. V., Sha, S. J., Andreasson, et al
2023
- **Reliability of remote National Alzheimer's Coordinating Center Uniform Data Set data.** *Alzheimer's & dementia (Amsterdam, Netherlands)*

Smith, V., Younes, K., Poston, K. L., Mormino, E. C., Young, C. B.
2023; 15 (4): e12498

- **Cerebellar Volume and Disease Staging in Parkinson's Disease: An ENIGMA-PD Study.** *Movement disorders : official journal of the Movement Disorder Society*

Kerestes, R., Laansma, M. A., Owens-Walton, C., Perry, A., van Heese, E. M., Al-Bachari, S., Anderson, T. J., Assogna, F., Aventurato, I. K., van Balkom, T. D., Berendse, H. W., van den Berg, K. R., Betts, et al
2023

- **Quantitative estimate of cognitive resilience and its medical and genetic associations.** *Alzheimer's research & therapy*

Phongpreecha, T., Godrich, D., Berson, E., Espinosa, C., Kim, Y., Cholerton, B., Chang, A. L., Mataraso, S., Bukhari, S. A., Perna, A., Yakabi, K., Montine, K. S., Poston, et al
2023; 15 (1): 192

- **An Explainable Geometric-Weighted Graph Attention Network for Identifying Functional Networks Associated with Gait Impairment.** *Medical image computing and computer-assisted intervention : MICCAI ... International Conference on Medical Image Computing and Computer-Assisted Intervention*

Nerrise, F., Zhao, Q., Poston, K. L., Pohl, K. M., Adeli, E.
2023; 14221: 723-733

- **Prediction of Phenoconversion Time in REM Sleep Behavior Disorder (RBD) with Brain Metabolic Network and Dopaminergic Imaging: A Longitudinal Study**

Tang, C. C., Schindlbeck, K., Nakano, Y., Niethammer, M., Dhawan, V., Poston, K., Eidelberg, D.
WILEY.2023: S189-S190

- **ATN_{PD} Framework Using Biofluid Markers Predicts Cognitive Decline in Early Parkinson's Disease**

Cousins, K. Q., Irwin, D. J., Tropea, T. F., Rhodes, E., Phillips, J. S., Chen-Plotkin, A. S., Brumm, M. C., Coffey, C. S., Kang, J., Simuni, T., Foroud, T., Toga, A. W., Tanner, et al
WILEY.2023: S169

- **An Explainable Geometric-Weighted Graph Attention Network for Identifying Functional Networks Associated with Gait Impairment.** *ArXiv*

Nerrise, F., Zhao, Q., Poston, K. L., Pohl, K. M., Adeli, E.
2023

- **Parkinson's Progression Markers Initiative: A Milestone-Based Strategy to Monitor Parkinson's Disease Progression.** *Journal of Parkinson's disease*

Brumm, M. C., Siderowf, A., Simuni, T., Burghardt, E., Choi, S. H., Caspell-Garcia, C., Chahine, L. M., Mollenhauer, B., Foroud, T., Galasko, D., Merchant, K., Arnedo, V., Hutten, et al
2023

- **Metrologically Traceable Quantification of 3 Apolipoprotein E Isoforms in Cerebrospinal Fluid.** *Clinical chemistry*

Huynh, H., Kuch, K., Orquillas, A., Forrest, K., Barahona-Carrillo, L., Keene, D., Henderson, V. W., Wagner, A. D., Poston, K. L., Montine, T. J., Lin, A., Tian, L., MacCoss, et al
2023

- **Impact of the Dopamine System on Long-Term Cognitive Impairment in Parkinson Disease: An Exploratory Study.** *Movement disorders clinical practice*

Weintraub, D., Picillo, M., Cho, H. R., Caspell-Garcia, C., Blauwendraat, C., Brown, E. G., Chahine, L. M., Coffey, C. S., Dobkin, R. D., Foroud, T., Galasko, D., Kieburtz, K., Marek, et al
2023; 10 (6): 943-955

- **Reduced and Delayed Cerebrovascular Reactivity in Patients with Parkinson's Disease.** *Movement disorders : official journal of the Movement Disorder Society*

Ryman, S. G., Shaff, N., Dodd, A., Nitschke, S., Wertz, C., Julio, K., Suarez Cedeno, G., Deligtisch, A., Erhardt, E., Lin, H., Vakhtin, A., Poston, K. L., Tarawneh, et al
2023

- **Assessment of heterogeneity among participants in the Parkinson's Progression Markers Initiative cohort using #synuclein seed amplification: a cross-sectional study.** *The Lancet. Neurology*

Siderowf, A., Concha-Marambio, L., Lafontant, D. E., Farris, C. M., Ma, Y., Urenia, P. A., Nguyen, H., Alcalay, R. N., Chahine, L. M., Foroud, T., Galasko, D., Kieburtz, K., Merchant, et al
2023; 22 (5): 407-417

- **Impact of the Dopamine System on Long-Term Cognitive Impairment in Parkinson Disease: An Exploratory Study** *MOVEMENT DISORDERS CLINICAL PRACTICE*

Weintraub, D., Picillo, M., Cho, H., Caspell-Garcia, C., Blauwendraat, C., Brown, E. G., Chahine, L. M., Coffey, C. S., Dobkin, R. D., Foroud, T., Galasko, D., Kieburtz, K., Marek, et al
2023

- **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., Sasoon, S. A., Asok, P., Brontë-Stewart, H. M., Poston, K. L., Pohl, K. M., Pfefferbaum, A., Schulte, T.
2023

- **Dementia with Lewy Bodies Drug Therapies in Clinical Trials: Systematic Review up to 2022.** *Neurology and therapy*
Abdelnour, C., Gonzalez, M. C., Gibson, L. L., Poston, K. L., Ballard, C. G., Cummings, J. L., Aarsland, D.
2023

- **Cognitive Impairment in Neurodegenerative Movement Disorders.** *Seminars in neurology*
Abdelnour, C., Poston, K. L.
2023

- **Synaptic Density and Glucose Consumption in Patients with Lewy Body Diseases: An [11 C]UCB-J and [18 F]FDG PET Study.** *Movement disorders : official journal of the Movement Disorder Society*
Andersen, K. B., Hansen, A. K., Schacht, A. C., Horsager, J., Gottrup, H., Klit, H., Danielsen, E. H., Poston, K. L., Pavese, N., Brooks, D. J., Borghammer, P.
2023

- **Listening session with the US Food and Drug Administration, Lewy Body Dementia Association, and an expert panel** *ALZHEIMERS & DEMENTIA-TRANSLATIONAL RESEARCH & CLINICAL INTERVENTIONS*
Sabbagh, M. N., Taylor, A., Galasko, D., Galvin, J. E., Goldman, J. G., Leverenz, J. B., Poston, K. L., Boeve, B. F., Irwin, D. J., Quinn, J. F.
2023; 9 (1): e12375

- **Prediction of neuropathologic lesions from clinical data.** *Alzheimer's & dementia : the journal of the Alzheimer's Association*
Phongpreecha, T., Cholerton, B., Bhukari, S., Chang, A. L., De Francesco, D., Thuraiappah, M., Godrich, D., Perna, A., Becker, M. G., Ravindra, N. G., Espinosa, C., Kim, Y., Berson, et al
2023

- **APOE effects on regional tau in preclinical Alzheimer's disease.** *Molecular neurodegeneration*
Young, C. B., Johns, E., Kennedy, G., Belloy, M. E., Insel, P. S., Greicius, M. D., Sperling, R. A., Johnson, K. A., Poston, K. L., Mormino, E. C., Alzheimers Disease Neuroimaging Initiative, A4 Study Team
2023; 18 (1): 1

- **Computerized cognitive practice effects in relation to amyloid and tau in preclinical Alzheimer's disease: Results from a multi-site cohort.** *Alzheimer's & dementia (Amsterdam, Netherlands)*
Young, C. B., Mormino, E. C., Poston, K. L., Johnson, K. A., Rentz, D. M., Sperling, R. A., Papp, K. V.
2023; 15 (1): e12414

- **Longitudinal hippocampal subfields, CSF biomarkers, and cognition in patients with Parkinson disease.** *Clinical parkinsonism & related disorders*
Erhardt, E., Horner, A., Shaff, N., Wertz, C., Nitschke, S., Vakhtin, A., Mayer, A., Adair, J., Knoefel, J., Rosenberg, G., Poston, K., Suarez Cedeno, G., Deligtisch, et al
2023; 9: 100199

- **Gait and balance in apolipoprotein #4 allele carriers in older adults and Parkinson's disease.** *Clinical parkinsonism & related disorders*
Morris, R., Martini, D. N., Kelly, V. E., Smulders, K., Ramsey, K., Hiller, A., Chung, K. A., Hu, S., Zabetian, C. P., Poston, K. L., Mata, I. F., Edwards, K. L., Lapidus, et al
2023; 9: 100201

- **Performance of a fully-automated Lumipulse plasma phospho-tau181 assay for Alzheimer's disease.** *Alzheimer's research & therapy*
Wilson, E. N., Young, C. B., Ramos Benitez, J., Swarovski, M. S., Feinstein, I., Vandijck, M., Le Guen, Y., Kasireddy, N. M., Shahid, M., Corso, N. K., Wang, Q., Kennedy, G., Trelle, et al
2022; 14 (1): 172

- **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

- **Cognition as a mediator for gait and balance impairments in GBA-related Parkinson's disease.** *NPJ Parkinson's disease*
Morris, R., Martini, D. N., Ramsey, K., Kelly, V. E., Smulders, K., Hiller, A., Chung, K. A., Hu, S., Zabetian, C. P., Poston, K. L., Mata, I. F., Edwards, K. L., Lapidus, et al
2022; 8 (1): 78
- **ISOLATED REM SLEEP BEHAVIOR DISORDER IS ASSOCIATED WITH 24-HOUR RHYTHM DISRUPTION**
Winer, J., Lok, R., Cahuas, A., Bueno, F., Poston, K., Mormino, E., Zeitzer, J., During, E.
OXFORD UNIV PRESS INC.2022: A125
- **Divergent Cortical Tau Positron Emission Tomography Patterns Among Patients With Preclinical Alzheimer Disease.** *JAMA neurology*
Young, C. B., Winer, J. R., Younes, K., Cody, K. A., Betthauser, T. J., Johnson, S. C., Schultz, A., Sperling, R. A., Greicius, M. D., Cobos, I., Poston, K. L., Mormino, E. C., Alzheimers Disease Neuroimaging Initiative and the Harvard Aging Brain Study, et al
2022
- **Dopaminergic medication normalizes aberrant cognitive control circuit signalling in Parkinson's disease.** *Brain : a journal of neurology*
Cai, W., Young, C. B., Yuan, R., Lee, B., Ryman, S., Kim, J., Yang, L., Henderson, V. W., Poston, K. L., Menon, V.
2022
- **Neuroimaging approaches to cognition in Parkinson's disease.** *Progress in brain research*
Montaser-Kouhsari, L., Young, C. B., Poston, K. L.
2022; 269 (1): 257-286
- **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
- **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
- **Low soluble amyloid-beta 42 is associated with smaller brain volume in Parkinson's disease.** *Parkinsonism & related disorders*
Espay, A. J., Lafontant, D., Poston, K. L., Caspell-Garcia, C., Marsili, L., Cho, H. R., McDaniel, C., Kim, N., Coffey, C. S., Mahajan, A., Ezzat, K., Sturchio, A., Parkinson's Progression Markers Initiative
2021; 92: 15-21
- **Latent brain state dynamics and cognitive flexibility in older adults.** *Progress in neurobiology*
Lee, B., Cai, W., Young, C. B., Yuan, R., Ryman, S., Kim, J., Santini, V., Henderson, V. W., Poston, K. L., Menon, V.
2021: 102180
- **Influence of Common Reference Regions on Regional Tau Patterns in Cross-Sectional and Longitudinal [18F]-AV-1451 PET Data.** *NeuroImage*
Young, C. B., Landau, S. M., Harrison, T. M., Poston, K. L., Mormino, E. C., ADNI
2021: 118553
- **Association of Short and Long Sleep Duration With Amyloid-beta Burden and Cognition in Aging.** *JAMA neurology*
Winer, J. R., Deters, K. D., Kennedy, G., Jin, M., Goldstein-Piekarski, A., Poston, K. L., Mormino, E. C.
2021
- **Semantic fluency and processing speed are reduced in non-cognitively impaired participants with Parkinson's disease.** *Journal of clinical and experimental neuropsychology*
Cholerton, B. A., Poston, K. L., Yang, L., Rosenthal, L. S., Dawson, T. M., Pantelyat, A., Edwards, K. L., Tian, L., Quinn, J. F., Chung, K. A., Hiller, A. L., Hu, S., Montine, et al
2021: 1-12
- **High cerebrospinal amyloid-# 42 is associated with normal cognition in individuals with brain amyloidosis.** *EClinicalMedicine*
Sturchio, A., Dwivedi, A. K., Young, C. B., Malm, T., Marsili, L., Sharma, J. S., Mahajan, A., Hill, E. J., Andaloussi, S. E., Poston, K. L., Manfredsson, F. P., Schneider, L. S., Ezzat, et al
2021; 38: 100988
- **The effects of mood and cognition on daily functioning and quality of life in older people living with HIV and people with Parkinson's disease.** *Neuropsychology*
Patel, S. S., Muller-Oehring, E. M., DeVaughn, S., Fama, R., Bronte-Stewart, H. M., Poston, K. L., Schulte, T.

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