

CURRICULUM VITAE

NAME Sarah Kolibash Royse
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EDUCATION

Graduate

2021-	University of Pittsburgh Pittsburgh, PA	PhD	Epidemiology
2018-21	University of Pittsburgh Pittsburgh, PA	MPH	Epidemiology

Undergraduate

2013-16	The Ohio State University Columbus, OH	BS, Cum Laude	Neuroscience
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POSITIONS

2022-	Senior Data Scientist	University of Pittsburgh Department of Radiology PET Research Center Supervisor: Brian Lopresti, MSNE
2016-2022	Data Analyst	University of Pittsburgh Department of Radiology PET Research Center Supervisor: Brian Lopresti, MSNE
2019-20	MPH Student Intern	University of Pittsburgh Department of Epidemiology e-Brain Laboratory Advisor: Caterina Rosano, MD, MPH
2015-16	Undergraduate Research Assistant	The Research Institute at Nationwide Children's Hospital Center for Biobehavioral Health Advisor: Kathryn Vannatta, PhD

2014-16 Undergraduate Research Assistant The Ohio State University
Departments of Psychology and
Neuroscience
Clinical Neuroscience Laboratory
Advisor: Ruchika Prakash, PhD

AWARDS AND HONORS

2021 Delta Omega Essay Award Omicron Chapter - Delta Omega
National Honors Society in Public Health

2013-2016 Dean's List The Ohio State University

TEACHING

2021 EPIDEM 2189: Epidemiological Graduate Teaching Assistant
Methods for Longitudinal and Time-
to-event Analyses

PUBLICATIONS

1. Refereed Articles

1. **Royse, S.K.**, Lopresti, B.J., Mathis, C., Tollefson, S., Narendran, R. Beyond Monoamines: II. Novel applications for PET imaging in psychiatric disorders: beyond monoamines. *Journal of Neurochemistry*, 00, 1-43.
2. Lopresti, B.J., **Royse, S.K.**, Mathis, C., Tollefson, S., Narendran, R. Beyond Monoamines: I. Novel targets and radiotracers for PET imaging in psychiatric disorders. *Journal of Neurochemistry*, 00, 1-37.
3. **Royse, S.K.**, Costacou, T., Nunley, K.A., Orchard, T.J., & Rosano, C. (2021). Neural correlates of slower gait in middle-aged persons with childhood-onset Type 1 diabetes mellitus. *Journal of Diabetes and its Complications*, 36(2), 108084.
4. Laymon, C.M., Minhas, D.S., **Royse, S.K.**, Aizenstein, H.J., Cohen, A.D., Tudorascu, D.L., & Klunk, W.E. (2021). Characterization of Point Spread Function Specification Error on Geometric Transfer Matrix Partial Volume Correction in [¹¹C]PiB Amyloid Imaging. *EJNMMI Physics*, 8(1), 1-16.
5. **Royse, S.K.**, Cohen, A.D., Snitz, B.E., & Rosano, C. (2021). Differences in Alzheimer's disease and Related Dementias pathology among African American and Hispanic women: A qualitative literature review of biomarker studies. *Frontiers in Systems Neuroscience*, 69.
6. **Royse, S.K.**, Minhas, D.S., Lopresti, B.J., Murphy, A., Ward, T., Koeppe, R.A., Bullich, S., DeSanti, S., Jagust, W.J., & Landau, S.M. (2021). Validation of amyloid PET positivity thresholds in centiloids: A multisite PET study approach. *Alzheimer's Research & Therapy*, 13(1), 1-10.

7. Flanigan, M.R., **Royse, S.K.***, Cenker, D.P., Kozinski, K.M., Stoughton, C.J., Himes, M.L., Minhas, D.S., Lopresti, B.J., Butters, M.A., & Narendran, R. (2021). Imaging beta-amyloid (A β) burden in the brains of middle-aged individuals with alcohol use disorder: a [¹¹C]PiB PET study. *Translational Psychiatry*, 11(1), (1-11).
8. Lopresti, B.J., Campbell, E.M., Yu, Z., Anderson, S.J., Cohen, A.D., Minhas, D.S., Snitz, B.E., **Royse, S.K.**, Becker, C.R., Aizenstein, H.J., Mathis, C.A., Lopez, O.L., Klunk, W.E., & Tudorascu, D.L. (2020). Influence of apolipoprotein-E genotype on brain amyloid load and longitudinal trajectories. *Neurobiology of Aging*, 94, 111–120.

*Co-first author

2. Conference Abstracts

1. Minhas, D.S., Ghodadra, A., Yu, Z., **Royse, S.K.**, Aizenstein, H.J., Cohen, A.D., Tudorascu, D.L., Lopresti, B.J., Mathis, C.A., Klunk, W.E., Laymon, C.M. (2021, December 14-16). *Evaluation of PET quantitation methods using a 3D-printed anatomically accurate brain phantom*. Nuclear Receptor Mapping Conference, virtual event.
2. Shaaban, C.E., Snitz, B.E., Tudorascu, D.L., Lopresti, B.J., **Royse, S.K.**, Aizenstein, H.J., Klunk, W.E., Cohen, A.D. (2021, July 26-30). *Sex and small vessel disease-specific longitudinal trajectories of amyloid, tau, and neurodegeneration*. Alzheimer's Association International Conference, Denver, CO, USA.
3. Minhas, D.S., Ghodadra, A., Yu, Z., **Royse, S.K.**, Aizenstein, H.J., Cohen, A.D., Tudorascu, D.L., Lopresti, B.J., Mathis, C.A., Klunk, W.E., Laymon, C.M. (2020, July 17-31). *Evaluation of amyloid and tau PET quantitation methods using a 3D-printed anatomically accurate brain phantom*. Alzheimer's Association International Conference, virtual event.
4. Chen, J., Schramm, G., Ades-Aron, B., Vahle, T., Chen, Q., Turner, A.D., **Royse, S.**, Lopresti, B., Shepherd, T.M., Osorio, R., Fieremans, E. (2020, July 17-31). *Impact of MR-guided PET Reconstruction on tau detection and quantification with [18F]-MK-6240*. Alzheimer's Association International Conference, virtual event.
5. **Royse, S.K.**, Himes, M.L., Minhas, D.S., Lopresti, B.J., Flanigan, M.R., Narendran, R. (2020, January 15-17). *Increased risk of Alzheimer's disease in alcohol use disorder is not mediated by amyloid- β in a middle-aged cross-sectional cohort*. Human Amyloid Imaging Conference, Miami, FL, USA.
6. Laymon, C.M., Minhas, D.S., James, J.A., Christian, B.T., Cohen, A.D., Klunk, W.E., Tudorascu, D.L., **Royse, S.K.**, Zaman, S., Handen, B.L. (2020, January 15-17). *Probability Template Method for Analysis of Down Syndrome Amyloid PET*. Human Amyloid Imaging Conference, Miami, FL, USA.
7. Laymon, C.M., Minhas, D.S., **Kolibash, S.A.**, Aizenstein, H.J., Cohen, A.D., Lopresti, B.J., Mathis, C.A., Snitz, B.E., Tudorascu, D.L., Klunk, W.E. (2019, January 16-18). *Effect of point spread function specification error on GTM partial volume correction on PiB imaging*. Human Amyloid Imaging Conference, Miami, FL, USA.
8. Lopresti, B.J., Campbell, E.M., Yu, Z., Snitz, B.E., Anderson, S., Aizenstein H.J., Minhas D.S., **Kolibash, S.A.**, Cohen, A.D., Mathis, C.A., Klunk, W.E., Lopez, O., Tudorascu, D.L. (2019,

January 16-18). *Influence of apolipoprotein-E (APOE) genotype on amyloid trajectories in a longitudinal subject cohort.* Human Amyloid Imaging Conference, Miami, FL, USA.

3. Other Manuscripts

1. **Royse, S.K.**, Minhas, D.S., Lopresti, B.J. (2021). *Centiloid Level-2 Analysis of [¹⁸F]Florbetaben (FBB) and [¹⁸F]Florbetapir (FBP) PET Image Data using the updated ADNI FreeSurfer 7.0 pipeline.* Alzheimer's Disease Neuroimaging Initiative website.
2. **Kolibash, S.A.**, Minhas, D.S., Lopresti, B.J. (2018). *Centiloid Level-2 Analysis of [¹⁸F]Florbetaben (FBB) and [¹⁸F]Florbetapir (FBP) PET Image Data using the ADNI Pipeline.* Alzheimer's Disease Neuroimaging Initiative website.

POSTER PRESENTATIONS

1. **Royse, S.K.**, Costacou, T., Nunley, K.A., Orchard, T.J., Rosano, C. (2020, October 8). *Accelerated brain aging affects gait speed in a middle-aged type 1 diabetes mellitus cross-sectional cohort.* University of Pittsburgh Graduate School of Public Health Epi in Action, Pittsburgh, PA, USA.
2. **Royse, S.K.**, Himes, M.L., Minhas, D.S., Lopresti, B.J., Flanigan, M.R., Narendran, R. (2020, January 16). *Increased risk of Alzheimer's disease in alcohol use disorder is not mediated by amyloid- β in a middle-aged cross-sectional cohort.* Human Amyloid Imaging Conference, Miami, FL, USA.

SERVICE

2021-present	Epidemiology Graduate Student Ambassador	University of Pittsburgh Graduate School of Public Health
2021	Epidemiology Graduate Student Panelist	Prospective Student Open House University of Pittsburgh Graduate School of Public Health