

Dale Zhou

CONTACT INFORMATION

Complex Systems Lab
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EDUCATION

University of Pennsylvania

Ph.D. candidate in Neuroscience

Thesis advisors: Danielle Bassett and Theodore Satterthwaite

University of Maryland, College Park

B.A. in Philosophy, *honors*

B.Sc. in Psychology, *honors*

Minor in Neuroscience

Publications

JOURNAL ARTICLES

Chai, L.R., **Zhou, D.**, Bassett, D.S. (2019) *Evolution of semantic networks in biomedical texts*. Journal of Complex Networks. DOI: [10.1093/comnet/cnz023](https://doi.org/10.1093/comnet/cnz023)

Zhou, D., Liu, S., Zhou, X., Berman, R.A., Broadnax, D.D., Rapoport, J.L., and Thomas, A.G. (2018) *7 Tesla MRI reveals hippocampal structural abnormalities associated with memory intrusions in childhood-onset schizophrenia*. Schizophrenia Research. DOI: [10.1016/j.schres.2018.07.023](https://doi.org/10.1016/j.schres.2018.07.023)

Zhou, D., Gochman, P., Broadnax, D.D., Rapoport, J.L., and Ahn, K. (2016). *15q13.3 duplication in two patients with childhood-onset schizophrenia*. American Journal of Medical Genetics Part B: Neuropsychiatric Genetics. DOI: [10.1002/ajmg.b.32439](https://doi.org/10.1002/ajmg.b.32439)

SUBMITTED/ UNDER REVIEW

Lydon-Staley, D.M., **Zhou, D.**, Blevins, A.S., Zurn, P., Bassett, D.S. (2019) *Hunters, busybodies, and the knowledge network building associated with curiosity*. PsyArXiv. DOI: [10.31234/osf.io/undy4](https://doi.org/10.31234/osf.io/undy4)

BOOK CHAPTERS

Zhou, D., Sequeira, S., Driver, D., Thomas, S. (2018). *Disruptive Mood Dysregulation Disorder*. In S. Thomas and D. Driver (Eds.), Complex Disorders in Pediatric Psychiatry: A Clinician's Guide. Clinics Review Articles, Elsevier Inc. ISBN: 9780323511476

Conference Presentations

TALKS

Sackler Colloquium: The Brain Produces the Mind By Modeling (2019). Flash Talk: *Network Mechanisms of Curiosity and Information Seeking During Wikipedia Exploration*. National Academy of Sciences satellite event. Irvine, California.

Julius Axelrod Symposium (2017). Flash Talk: *Ultra-high field 7-Tesla MRI reveals hippocampal subfield volume and shape abnormalities in childhood-onset schizophrenia patients compared to healthy siblings and controls*. Society for Neuroscience satellite event. NIMH, Intramural Research Program. Bethesda, Maryland.

ABSTRACTS

Zhou, D., Lydon-Staley, D., Zurn, P., Bassett, D.S. (2019). *Network Mechanisms of Curiosity and Information Seeking During Wikipedia Exploration*. Sackler Colloquium: The Brain Produces the Mind By Modeling, Beckman Center of the National Academy of Sciences & Engineering, Irvine, California.

Zhou, D., Liu, S., Zhou, X., Berman, R.A., Broadnax, D.D., Rapoport, J.L, and Thomas, A.G. (2017). *Ultra-high field 7-Tesla MRI reveals hippocampal sub-field volume and shape abnormalities in childhood-onset schizophrenia patients compared to healthy siblings and controls*. Julius Axelrod Symposium, Bethesda, Maryland.

Zhou, D., Liu, S., Zhou, X., Berman, R.A., Broadnax, D.D., Rapoport, J.L, and Thomas, A.G. (2017). *Ultra-High Field 7-Tesla MRI Shape Analysis of Hippocampal Subfields in Childhood-Onset Schizophrenia and Healthy Siblings*. Society for Biological Psychiatry, San Diego, California.

Zhou, D., Liu, S., Berman, R.A., Broadnax, D.D., Rapoport, J.L, and Thomas, A.G. (2016). *7-Tesla MRI Reveals Regional Hippocampal Deficits in Childhood-Onset Schizophrenia*. American College of Neuropsychopharmacology, Hollywood, Florida. In *Neuropsychopharmacology*, Vol. 41, pp. S591-S591.

Zhou, D., Liu, S., Berman, R.A., Broadnax, D.D., Rapoport, J.L, and Thomas, A.G. (2016). *7-Tesla MRI reveals regional hippocampal volume deficits of dentate gyrus in childhood-onset schizophrenia*. Society for Neuroscience, San Diego, California.

Zhou, D., Gochman, P., Broadnax, D.D., Rapoport, J.L., and Ahn, K. (2016). *15q13.3 duplication in two patients with childhood-onset schizophrenia*. Society of Biological Psychiatry, Atlanta, Georgia.

Open-source software

Gorgolewski, K.J., Esteban, O., [110 others, including **Zhou, D.**], and Ghosh, S. (2016). *Nipype: a flexible, lightweight and extensible neuroimaging data processing framework in Python. 0.13.0*. DOI: 10.5281/zenodo.581704

Honors & Awards

2019	Sackler Colloquium Travel Award
2018	Language and Communication Sciences Research Fund Stipend
2015	NIH Intramural Research Training Award
2015	Departmental Honors in Psychology
2015	Departmental Honors in Philosophy
2013	College Park Scholars Co-Curricular Scholarship Award
2012	College Park Scholar in Global Public Health
2011	Ling Ho Anita K'ung Tong Scholarship
2010	University of Maryland President's Scholarship

Teaching

2019	Guest Lecturer, Network Neuroscience (BE 566)
2019	Teaching Assistant, Computational Neuroscience Lab (BBB 344)
2018–19	Tutorial: Semantic Networks (used in EAS 244 & BE 566), link

STUDENTS ADVISED

Samantha Simon (University of Pennsylvania, Physics 2023)
Diversity in science; network science; semantic networks

Mark Choi (University of Pennsylvania, Computer Science 2021)
Network structure in mathematics networks

Professional Service

2019	Committee, APICAL Service Award
2019–	Apprentice Chief, Upward Bound: Research Fridays, link
2017–	Section Chief, Brains in Brief science communication, link

2017–18 Founder, Psychology Honors Alumni (University of Maryland)
2014–15 Vice President, Philosophy Club (University of Maryland)

REVIEWER Biological Psychiatry, Cerebral Cortex, IEEE: Transactions on Network Science and Engineering

INVITED TALKS Panelist, Post-Baccalaureate Research Experiences (2017), University of Maryland

**Technical
Skills**

PROGRAMMING R, Python, MATLAB, L^AT_EX

IMAGE
PROCESSING Nipype, Freesurfer, ANTs, FSL, AFNI