

## Dale Zhou

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### CONTACT INFORMATION

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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

**Zhou, D.**, Lynn, C.W., Cui, Z., Ciric, R., Baum, G.L., Moore, T.M., Roalf, D.R., Detre, J.A., Gur, R.C., Gur, R.E., Satterthwaite, T.D., Bassett, D.S. (2020) *Efficient Coding in the Economics of Human Brain Connectomics*. biorxiv. DOI: [10.1101/2020.01.14.906842](https://doi.org/10.1101/2020.01.14.906842)

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 &amp; Awards

2019	Sackler Colloquium ‘Brain Produces Mind By Modeling’ 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

2020	Teaching Assistant, Curiosity (INTG 002)
2019	Guest Lecturer, Network Neuroscience (BE 566)
2019	Guest Lecturer, Computational Neuroscience Lab (BBB 344)
2019	Teaching Assistant, Computational Neuroscience Lab (BBB 344)
2018–	Tutorial: Semantic Networks (used in EAS 244 & BE 566), <a href="#">link</a>

## 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–      Organizer, Penn Network Visualization program, [\[link\]](#)  
 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 & Training

PROGRAMMING      R, Python, MATLAB,  $\text{\LaTeX}$

IMAGE PROCESSING      Nipype, Freesurfer, ANTs, FSL, AFNI

WORKSHOPS      Computational Psychiatry Summer Course (2019), New York, New York.