

## Dale Zhou

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CONTACT INFORMATION      Complex Systems Lab      <https://dalezhou.com>  
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 Philadelphia, PA 19104

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

|      |   |
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| 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

|         |  |
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| 2019    | Guest Lecturer, Network Neuroscience (BE 566)                                |
| 2019    | Guest Lecturer, Computational Neuroscience Lab (BBB 344)                     |
| 2019    | Teaching Assistant, Computational Neuroscience Lab (BBB 344)                 |
| 2018–19 | 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

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| 2019  | Committee, APICAL Service Award  |
| 2019– | Apprentice Chief, Upward Bound: Research Fridays, <a href="#">link</a> |

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, L<sup>A</sup>T<sub>E</sub>X

IMAGE  
PROCESSING      Nipype, Freesurfer, ANTs, FSL, AFNI

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