

DALE ZHOU

Last update: October 28, 2023

CONTACT INFORMATION	<p>Translational Neuroscience Laboratory 1400 Biological Sciences III Irvine, CA 92617</p> <p>Computational Cognitive Neuroscience Lab Social Science Lab 334 Irvine, CA 92697</p>	<p>https://dalezhou.com dale.zhou@uci.edu dalejn@gmail.com</p>
RESEARCH POSITIONS	<p>Hewitt Foundation Postdoctoral Researcher University of California, Irvine Department of Neurobiology and Behavior Advisors: Michael Yassa, Aaron Bornstein</p> <p>Postbaccalaureate Researcher National Institute of Mental Health Child Psychiatry Branch Advisor: Judith Rapoport</p>	<p>August 2023</p> <p>June 2017</p>
EDUCATION	<p>University of Pennsylvania Ph.D in Neuroscience Advisors: Dani Bassett, Theodore Satterthwaite</p> <p>University of Maryland, College Park B.A. (honors) in Philosophy B.S. (honors) in Psychology Minor in Neuroscience Advisors: Peter Carruthers, Michael Dougherty, D.J. Bolger</p>	<p>June 2023</p> <p>May 2015</p>

PUBLICATIONS

SUBMITTED/
UNDER REVISION

* = mentee

- [4] Parkes, L., Kim, J.Z., Stiso, J., Brynildsen, J.K., Cieslak, M., Covitz, S., Gur, R.E., Gur, R.C., Pasqualetti, F., Shinohara, R.T., Stiso, J., **Zhou, D.**, Satterthwaite, T.D., & Bassett, D.S. (2023). Using network control theory to study the dynamics of the structural connectome. *bioRxiv*: **2023.08.23.554519**
- [3] **Zhou, D.**, Tseytlin, I.*, Satterthwaite, T.D., & Bassett, D.S. (2023). Predictive coding from compression, control, and recurrent connectivity in human brain networks.
- [2] Stiso, J., Oudyk, K., Bertolero, M.A., **Zhou, D.**, Teich, E.G., Lydon-Staley, D.M., Zurn, P., & Bassett, D.S. (2022). Modeling observed gender imbalances in academic citation practices. *arXiv*: **10.48550/arXiv.2204.12555**
- [1] Bertolero, M.A., Dworkin, J.D., David, S.U., López Lloreda, C., Srivastava, P., Stiso, J., **Zhou, D.**, Dzirasa, K., Fair, D.A., Kaczkurkin, A.N., Marlin, B.J., Shohamy, D., Uddin, L.Q., Zurn, P., & Bassett, D.S. (2020). Racial imbalance in neuroscience reference lists and intersections with gender. *bioRxiv*: **2020.10.12.336230**

JOURNAL
ARTICLES

- [14] Kang, Y., Ahn, J., Cosme, D., McGowan, A., Mwilambwe-tshilobo, L., **Zhou, D.**, Jovanova, M., Stanoi, O., Mucha, P.J., Ochsner, K.N., Bassett, D.S., Lydon-Staley, D. & Falk, E.B. (2023). Frontoparietal functional connectivity moderates the link between time spent on social media and subsequent negative affect in daily life. *Scientific Reports*.
- [13] Mahadevan, A., Cornblath, E., Lydon-Staley, D.M., **Zhou, D.**, Parkes, L., Larsen, B., Adebimpe, A., Kahn, A.E., Gur, R.C., Gur, R.E., Satterthwaite, T.D., Wolf, D.H., & Bassett, D.S. (2023). Alprazolam modulates persistence energy during emotion processing in first-degree relatives of individuals with schizophrenia: a network control study. *Molecular Psychiatry*. DOI: 10.1038/s41380-023-02121-z
- [12] Patankar, S.P., **Zhou, D.**, Lynn, C.W., Kim, J., Ouellet, M., Ju, H., Zurn, P., Lydon-Staley, D.M., & Bassett, D.S. (2022). Curiosity as filling, compressing, and reconfiguring knowledge networks. *Collective Intelligence* (accepted in principle). *arXiv*: 10.48550/arXiv.2204.01182
- [11] **Zhou, D.**, Kang, Y., Cosme, D., Jovanova, M., He, X., Mahadevan, A., Ahn, J., Stanoi, O., Brynildsen, J.K., Cooper, N., Cornblath, E.J., Parkes, L., Mucha, P., Ochsner, K., Lydon-Staley, D., Falk, E., & Bassett, D.S. (2022). Mindful Attention Promotes Control of Brain Network Dynamics for Self-Regulation and Discontinues the Past from the Present. *PNAS*. DOI: 10.1073/pnas.220107411
- [10] Richie-Halford, A., Cieslak, M., Ai, L., Caffarra, S., Covitz, S., Franco, A.R., Karipidis, I.L., Kruper, J., Milham, M., Avelar-Pereira, B., Roy, E., Sydnor, V.J., Yeatman, J.D., [The Fibr Community Science Consortium, including **Zhou, D.**], Satterthwaite, T.D., and Rokem, A. (2022). An open, analysis-ready, and quality controlled resource for pediatric brain white-matter research. *Scientific Data*. DOI: 10.1038/s41597-022-01695-7
- [9] Ju, H., **Zhou, D.**, Blevins, A.S., Lydon-Staley, D.M., Kaplan, J., Tuma, J.R., Bassett, D.S. (2022). Historical growth of concept networks in Wikipedia. *Collective Intelligence*. DOI: 10.1177/26339137221109839
- [8] Weninger, L., Srivastava, P., **Zhou, D.**, Kim, J.Z., Cornblath, E.J., Bertolero, M.A., Habel, U., Merhof, D., and Bassett, D.S. (2022). The information content of brain states is explained by structural constraints on state energetics. *Physical Review E*. DOI: 10.1103/PhysRevE.106.014401
- [7] Adebimpe, A., Bertolero, M.A., [33 others, including **Zhou, D.**, and the ALLFTD Consortium], & Satterthwaite, T.D. (2022). ASLPrep: A Platform for Processing of Arterial Spin Labeled MRI and Quantification of Regional Brain Perfusion. *Nature Methods*. DOI: 10.1038/s41592-022-01458-7
- [6] **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. (2021). Efficient Coding in the Economics of Human Brain Connectomics. *Network Neuroscience*. DOI: 10.1162/netn_a-00223
- [5] Wang, X., Dworkin, J.D., **Zhou, D.**, Stiso, J., Falk, E., Bassett, D.S., Zurn, P., Lydon-Staley, D.M. (2021). Gendered citation practices in the field of communication. *Annals of the International Communication Association*. DOI: 10.31234/osf.io/ywrcq
- [4] Lydon-Staley, D.M., **Zhou, D.**, Blevins, A.S., Zurn, P., & Bassett, D.S. (2020). Hunters, busybodies, and the knowledge network building associated with deprivation curiosity. *Nature Human Behavior*. DOI: 10.1038/s41562-020-00985-7
- [3] Chai, L.R., **Zhou, D.**, & Bassett, D.S. (2019). Evolution of semantic networks in biomedical texts. *Journal of Complex Networks*. DOI: 10.1093/com-net/cnz023

- [2] **Zhou, D.**, Liu, S., Zhou, X., Berman, R.A., Broadnax, D.D., Rapoport, J.L., & 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
- [1] **Zhou, D.**, Gochman, P., Broadnax, D.D., Rapoport, J.L., & 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

REVIEWS,
COMMENTS, &
BOOK CHAPTERS

- [5] Zurn, P., **Zhou, D.**, Lydon-Staley, D.M., & Bassett, D.S. (2022). Edgework: Viewing curiosity as fundamentally relational. In Cogliati Dezza, I., Wu, C., & Schulz, E. (Eds.). *The Drive for Knowledge: The Science of Human Information Seeking*. Cambridge University Press. [pre-print]
- [4] **Zhou, D.**, Lydon-Staley, D.M., Zurn, P., & Bassett, D.S. (2020). The growth and form of knowledge networks by kinesthetic curiosity. *Current Opinion in Behavioral Sciences*. DOI:10.1016/j.cobeha.2020.09.007
- [3] Srivastava, P., Nozari, E., Kim, J.Z., Ju, H., **Zhou, D.**, Becker, C., Pasqualetti, F., & Bassett, D.S. (2020). Models of communication and control for brain networks: distinctions, convergence, and future outlook. *Network Neuroscience*. DOI: 10.1162/netn.a_00158
- [2] Rapoport, J. L., **Zhou, D.**, & Ahn, K. (2020). Intellectual disabilities. *New Oxford Textbook of Psychiatry, 3rd edition*. Oxford University Press, USA. ISBN: 9780198713005
- [1] **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

REFEREED
CONFERENCE
PAPERS

- [4] **Zhou, D.**, Tseytlin, I.*, Satterthwaite, T.D., & Bassett, D.S. (2023). Predictive coding from compression, control, and recurrent connectivity in human brain networks. *Conference on Cognitive Computational Neuroscience*.
- [3] Kang, Y., Ahn, J., Cosme, D., McGowan, A., Mwilambwe-tshilobo, L., **Zhou, D.**, Jovanova, M., Stanoi, O., Mucha, P.J., Ochsner, K.N., Bassett, D.S., Lydon-Staley, D. & Falk, E.B. Frontoparietal system functional connectivity moderates the within-day associations between increases in time spent on social media and subsequent negative affect. *73rd Annual International Communication Association Conference*. Toronto, CA. May 25-29, 2023.

Promising Paper Award

- [2] **Zhou, D.**, Kim, J.Z., Pines, A., Sydnor, V.J., Roalf, D.R., Detre, J.A., Gur, R.C., Gur, R.E., Satterthwaite, T.D., & Bassett, D.S. Compression supports low-dimensional representations of behavior across neural circuits. *NeurIPS 2022 Workshop on Information-Theoretic Principles in Cognitive Systems*. New Orleans, LA. December 3, 2022.

Selected for oral talk (< 10% submissions)

- [1] Wang, X., Lydon-Staley, D., Stiso, J., **Zhou, D.**, Falk, E., Bassett, D., Zurn, P. Gendered citation practices in the field of communication. *71st Annual International Communication Association Conference*. (virtual due to COVID-19). May 27-31, 2021.

Communication & Science Biology Top Paper Award

IN PREP

- [4] **Zhou, D.**, Patankar, S., Gerlach, M., Lydon-Staley, D.M., Zurn, P., & Bassett, D.S. Architectural styles of curiosity in Wikipedia readers.
- [3] **Zhou, D.**, Kim, J.Z., Pines, A., Sydnor, V.J., Roalf, D.R., Gur, R.C., Gur, R.E., Satterthwaite, T.D., & Bassett, D.S. Integrating sensation to cognition in human brain networks.
- [2] **Zhou, D.**, Lydon-Staley, D.M., Mucha, P., Falk, E., Ochsner, K., & Bassett, D.S. Cognitive control & network control: Current tensions and future promise.
- [1] Simon, S.*, **Zhou, D.**, [23 others in the Spring 2019 class of BE566], Lydon-Staley, D.M., & Bassett, D.S. Diversity in neuroscience research.

FUNDING

2023-26	Hewitt Research Fellow & Cunningham Scholar \$261,000 George E. Hewitt Foundation for Medical Research
2021-23	NIH F31 National Research Service Award \$80,138 Grant # F31MH126569 Brain Network Maturation and Executive Dysfunction Spanning Diagnostic Categories of Psychopathology

HONORS

2015	Departmental Honors in Psychology	UMaryland
2015	Departmental Honors in Philosophy	UMaryland
2010-12	College Park Scholar in Global Public Health	UMaryland
2010-14	University of Maryland President's Scholarship	UMaryland

STIPENDS

2023	Biomedical Graduate Studies Course Funds	UPenn
2022	Biomedical Graduate Studies Travel Funds	UPenn
2019	National Academy of Sciences Travel Award	NAS
2018-20	Language and Communication Sciences Stipend	UPenn
2013	College Park Scholars Co-Curricular Scholarship	UMaryland
2011	Ling Ho Anita K'ung Tong Scholarship	UMaryland

PRESENTATIONS

TALKS

- [3] *NeurIPS 2022* Workshop on Information-Theoretic Principles in Cognitive Systems. New Orleans, LA. December 3, 2022. Compression supports low-dimensional representations of behavior across neural circuits. [\[link\]](#)
(< 10% submissions selected)

- [2] *National Academy of Sciences* Colloquium: The Brain Produces the Mind By Modeling. Irvine, California. May 1, 2019. Network Mechanisms of Curiosity and Information Seeking During Wikipedia Exploration.
- [1] *9th Annual Julius Axelrod Symposium*. NIMH, Intramural Research Program. Bethesda, Maryland. April 13, 2017. Ultra-high field 7-Tesla MRI reveals hippocampal subfield volume and shape abnormalities in childhood-onset schizophrenia patients compared to healthy siblings and controls.

INVITED TALKS

2023	International Research Training Group	RWTH Aachen
2023	Yassa Lab; Bornstein Lab	UC Irvine
2023	Poldrack Lab	Stanford
2023	Astle Lab	Cambridge

ABSTRACTS

- [16] **Zhou, D.**, Tseytlin, I.*, Satterthwaite, T.D., & Bassett, D.S. (2023). Predictive coding from compression, control, and recurrent connectivity in human brain networks. *Conference on Cognitive Computational Neuroscience*.
- [15] Gataviņš, M.*, Luo, A., Sydnor, V.J., Shafiei, G., **Zhou, D.**, Gur, R.E., Gur, R.C., Mackey, A.P., Satterthwaite, T.D., Keller, A.S. (2023). Functional network development along the sensorimotor-association axis. *Flux Society*. Santa Rosa, California. September 6-9, 2023.
- [14] **Zhou, D.**, Patankar, S., Gerlach, M., Lydon-Staley, D.M., Zurn, P., & Bassett, D.S. Dynamics Of Curiosity And Complexity In Wikipedia Readers. **Curiosity, Creativity and Complexity conference** (unable to attend). Columbia University, New York City, New York. May 23-25 2023.
- [13] **Zhou, D.**, Kim, J.Z., Pines, A., Sydnor, V.J., Roalf, D.R., Detre, J.A., Gur, R.C., Gur, R.E., Satterthwaite, T.D., & Bassett, D.S. Compression supports low-dimensional representations of behavior across neural circuits. *NeurIPS 2022 Workshop on Information-Theoretic Principles in Cognitive Systems*. New Orleans, LA. December 3, 2022.
- [12] Brynildsen, J. K., **Zhou, D.**, Cosme, D., Jovanova, M., He, X., Mucha, P.J., Ochsner, K.N., Lydon-Staley, D.M. , Falk, E. B., Bassett, D.S. Regulation of alcohol cue reactivity in a social context. *Society for Neuroscience*. San Diego, CA. November 12, 2022.
- [11] **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. Network Fidelity Improves with Brain Network Maturation and Executive Function. *Flux Society*. Paris, France. September 6-9, 2022.
- [10] **Zhou, D.**, Kim, J.Z., Pines, A., Sydnor, V.J., Roalf, D.R., Detre, J.A., Gur, R.C., Gur, R.E., Satterthwaite, T.D., & Bassett, D.S. Communication and compression principles integrate sensation to cognition in human brain networks. *Organization for Human Brain Mapping*. Glasgow, Scotland. June 19-23, 2022.
- [9] **Zhou, D.**, Kang, Y., Cosme, D. Jovanova, M., He, X., Mahadevan, A., Stanoi, O., Brynildsen, J.K., Cooper, N., Cornblath, E.J., Parkes, L., Mucha, P., Ochsner, K., Lydon-Staley, D., Falk, E., and Bassett, D.S. Mindfulness Promotes Control of Network Dynamics for Self-Regulation and Updates the Past to Present. *Organization for Human Brain Mapping*. Glasgow, Scotland. June 19-23, 2022.

- [8] Ju, H., **Zhou, D.**, Blevins, A.S., Lydon-Staley, D.M., Kaplan, J., Tuma, J.R., Bassett, D.S. The network structure of scientific revolutions. *American Physical Society March Meeting* (virtual due to COVID-19). March 15-19, 2021.
- [7] **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. Efficient Coding in the Economics of Human Brain Connectomics. *Organization for Human Brain Mapping*. Montreal, CA (virtual due to COVID-19). June 23-July 3, 2020.
- [6] **Zhou, D.**, Lydon-Staley, D., Zurn, P., Bassett, & D.S. Network Mechanisms of Curiosity and Information Seeking During Wikipedia Exploration. *National Academy of Sciences Colloquium: The Brain Produces the Mind By Modeling*, Beckman Center of the National Academy of Sciences & Engineering, Irvine, California. May 1-3, 2019.
- [5] **Zhou, D.**, Liu, S., Zhou, X., Berman, R.A., Broadnax, D.D., Rapoport, J.L., & Thomas, A.G. Ultra-high field 7-Tesla MRI reveals hippocampal subfield volume and shape abnormalities in childhood-onset schizophrenia patients compared to healthy siblings and controls. *9th Annual Julius Axelrod Symposium*, Bethesda, Maryland. April 13, 2017.
- [4] **Zhou, D.**, Liu, S., Zhou, X., Berman, R.A., Broadnax, D.D., Rapoport, J.L., & Thomas, A.G. Ultra-High Field 7-Tesla MRI Shape Analysis of Hippocampal Subfields in Childhood-Onset Schizophrenia and Healthy Siblings. *Society of Biological Psychiatry*, San Diego, California. May 18-20, 2017.
- [3] **Zhou, D.**, Liu, S., Berman, R.A., Broadnax, D.D., Rapoport, J.L., & Thomas, A.G. 7-Tesla MRI Reveals Regional Hippocampal Deficits in Childhood-Onset Schizophrenia. *American College of Neuropsychopharmacology*, Hollywood, Florida. In *Neuropsychopharmacology*. December 4-8, 2016.
- [2] **Zhou, D.**, Liu, S., Berman, R.A., Broadnax, D.D., Rapoport, J.L., & Thomas, A.G. 7-Tesla MRI reveals regional hippocampal volume deficits of dentate gyrus in childhood-onset schizophrenia. *Society for Neuroscience*, San Diego, California. November 12-16, 2016.
- [1] **Zhou, D.**, Gochman, P., Broadnax, D.D., Rapoport, J.L., & Ahn, K. 15q13.3 duplication in two patients with childhood-onset schizophrenia. *Society of Biological Psychiatry*, Atlanta, Georgia. May 12-14, 2016.

TEACHING

TEACHING ASSISTANT

- | | |
|------|--|
| 2022 | Goals of Scientific Inquiry; or, On the Curiosity of Beasts (with Dani Bassett)
(Student evaluation of TA: 3.6/4.0) |
| 2020 | Curiosity: Ancient and Modern Thinking About Thinking (with Dani Bassett)
(Student evaluation of TA: not rated) |
| 2019 | Computational Neuroscience Lab (Student evaluation of TA: 3.7/4.0) (with Nicole Rust) |

GUEST LECTURER

2023	Advanced Topics in Graph Analysis (Johns Hopkins University, School of Engineering, Data Science)	(with Will Gray-Roncal)
2022	Goals of Scientific Inquiry (UPenn Bioengineering 571)	(with Dani Bassett)
2019-20	Network Neuroscience (UPenn Bioengineering 566)	(with Dani Bassett)
2019	Computational Neuroscience Lab (UPenn Biological Basis of Behavior 310)	(with Nicole Rust)

STUDENTS ADVISED

[3]	Ivan Tseytlin	Haverford College, Physics; Computer Science 2023 Network control theory
[2]	Samantha Simon	University of Pennsylvania, Physics 2023 Diversity in science; semantic networks (Accenture AI)
[1]	Mark Choi	University of Pennsylvania, Computer Science 2021 Network structure in mathematics (Meta)

SERVICE

MENTORSHIP

2020–21	MindCORE Step-Ahead Mentorship Program, [link] Mārtiņš M. Gataviņš	University of Pennsylvania, Neuroscience 2024
2019–21	Upward Bound: Research Fridays, [link]	

JOURNAL REVIEWER

Biological Psychiatry | Cerebral Cortex | IEEE: Transactions on Network Science and Engineering | Network Neuroscience

CONFERENCE REVIEWER

Cognitive Computational Neuroscience | NeurIPS (Information-Theoretic Principles in Cognitive Systems workshop) | Web Conference (Wiki Workshop)

CO-ORGANIZER & PROGRAM COMMITTEE

Innovators in Cognitive Neuroscience Symposia | Web Conference (Wiki Workshop)

HACKATHONS

Stiso, J.* & Zhou, D.* (2020). *Tools for Combating Citation Bias*. Organization for Human Brain Mapping Hackathon, Montreal, Canada. June 16–18, 2020. [\[link\]](#)

INVITED TALKS

Citation Diversity Tutorial, Annual Meeting for the Neuroscience Training Grant; Vision Training Grant; and Computational Approaches to the Neuroscience of Audition Training Grant, University of Pennsylvania. June 7, 2021.

Panelist, Post-Baccalaureate Research Experiences, University of Maryland. March 30, 2017.

DIVERSITY, EQUITY, & INCLUSION

2019–	Creator/Maintainer, Citation Diversity Statement Code Notebook, [link]	
-------	--	--

- Used and cited in > 100 articles across > 30 journals.
 - Contributions from researchers across 11 universities, including Penn, MIT, Columbia, University of Michigan, Leiden University, and Technical University of Munich.
 - Highlighted by **Nature**, **Cell**, and **Science** journals.
- 2022 Kamen’s Lens. Rebecca Kamen, S.J. Fowler, Dale Zhou. *Dyslexic Dictionary*. Organized and curated by Gil Gershoni, Tasmin Smith, and Ted Gioia. Arion Press Gallery, 1802 Hays Street, The Presidio, San Francisco, CA. October 22–December 22, 2022. [\[link\]](#) [\[video 1\]](#) [\[video 2\]](#)
- 2020–22 Organizing Committee, Innovators in Cognitive Neuroscience Symposia. [\[link\]](#)
- 2020 Stiso, J.* & **Zhou, D.*** (2020). *Tools for Combating Citation Bias*. Organization for Human Brain Mapping Hackathon, Montreal, Canada. June 16–18, 2020. [\[link\]](#)
- 2020–21 Web Developer, Black in STEM in Academia

OUTREACH

ORGANIZATIONS

2020–22	Organizing Committee Innovators in Cognitive Neuroscience	UPenn
2020–21	Web Developer Black in STEM in Academia	UPenn
2019–20	Organizer, Web Developer Penn Network Visualization program	UPenn
2019–21	Apprentice Chief Upward Bound: Research Fridays	UPenn
2019–20	Committee member APICAL Service Award	UPenn
2017–20	Section Chief Brains in Brief science communication	UPenn
2017–18	Founder Psychology Honors Alumni	UMaryland
2014–15	Vice President Philosophy Club	UMaryland

ART EXHIBITIONS

- [2] Kamen’s Lens. Rebecca Kamen, S.J. Fowler, Dale Zhou. *Dyslexic Dictionary*. Organized and curated by Gil Gershoni, Tasmin Smith, and Ted Gioia. Arion Press Gallery, 1802 Hays Street, The Presidio, San Francisco, CA. October 22–December 22, 2022. [\[link\]](#) [\[video 1\]](#) [\[video 2\]](#)
- [1] Sparking Curiosity. Dale Zhou, David Lydon-Staley, Perry Zurn, and Dani Bassett. *Reveal: The Art of Reimagining Scientific Discovery*. Organized and curated by Rebecca Kamen and Sarah Tanguy. Museum at the Katzen Arts Center, American University, Washington, D.C., August 29–December 12, 2021. [\[link\]](#)

ART CATALOGS

The Connected Brain. Human Brain Mapping Conference. ISBN 9798357985361

MEDIA

- [5] Natalia Gass. (February 17, 2023) *Neural states during mindful attention*. ***Nature Mental Health***.
- [4] Nathi Magubane (January 26, 2023) *Through the lens: A digital depiction of dyslexia*. ***Penn Today***.
- [3] Diana Kwon (March 22, 2022) *The rise of citational justice: how scholars are making references fairer*. ***Nature***.
- [2] Melissa Pappas (January 26, 2021) *Researchers measure different types of curiosity studying hunters and busybodies*. ***Penn Today***.
- [1] Melissa Pappas (January 12, 2021) *Studying Hunters and Busybodies, Penn and American University Researchers Measure Different Types of Curiosity*. ***Penn Engineering Today***.

CODE

- [4] **Zhou, D.** (2022). Sparking Curiosity, [\[link\]](#)
- [3] **Zhou, D.**, Stiso, J., Cornblath, E.J., Teich, E.G., Blevins, A.S., Oudyk, K., Cleanthis, M., Urai, A., Matelsky, J., Virtualmario, Camp, C., Alacantha Castillo, R., Saxe, R., Dworkin, J.D., & Bassett, D.S. (2022). *Citation Diversity Statement and Code Notebook v1.1.3*. Zenodo. **DOI: 10.5281/zenodo.7375250**
- [2] **Zhou, D.** (2018). *Building word2vec and Co-Occurrence Networks*, [\[link\]](#)
- [1] Gorgolewski, K.J., Esteban, O., [110 others, including **Zhou, D.**], & Ghosh, S. (2016). *Nipype: a flexible, lightweight and extensible neuroimaging data processing framework in Python. 0.13.0*. **DOI: 10.5281/zenodo.581704**

TRAINING

PROGRAMMING

R | Python | MATLAB | Bash

IMAGE

PROCESSING

Nipype | Freesurfer | ANTs | FSL | AFNI

MODELING

Dynamics on networks | Temporal networks | Multi-layer networks | Agent-based modeling | Evolutionary computation | Control theory | Information theory | Natural language processing | Generalized additive models

WORKSHOPS

Collective Intelligence: Foundations + Radical Ideas symposium & short course. Santa Fe, NM. June 19, 2023

NeurIPS 2022 workshop Information-Theoretic Principles in Cognitive Systems workshop. New Orleans, LA. December 3, 2022

Summer Workshop in Cognitive Electrophysiology, Philadelphia, PA (virtual). August 4-13, 2020.

Computational Psychiatry Summer Course, New York, NY. July 29-30, 2019.