

Eric W. Bridgeford

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🌐 [ebridge2](https://ebridge2.github.io)

Research Experience

- 08/14 – **Research Assistant under Dr. Joshua T. Vogelstein**,
present Dept of Biomedical Engineering, Johns Hopkins University.
- 05/14 – **Research Assistant under Dr. Dani S. Bassett**,
present Dept of Bioengineering, University of Pennsylvania.

Education

- 2013 – **B.S. in Biomedical Engineering and Computer Science**,
present *Minor in Applied Mathematics and Statistics*,
Johns Hopkins University, Baltimore, MD 21218.
- 2009 – 2013 **High School**,
La Salle College High School, Wyndmoor, PA, 19038.

Awards & Honors

- 2015 – **Dean's List**, Johns Hopkins University.
present
- 2014 – **Martha A. Lavery Scholarship**, Johns Hopkins University.
present
- 2015 **Everyblock API Award**, Pennapps.

Works in Progress

- 1 S. Wang, Z. Yang, X.-N. Zuo, M. Milham, C. Craddock, G. Kiar, W. G. Roncal, E. Bridgeford, C. E. Priebe, and J. T. Vogelstein. Optimal Decisions for Discovery Science via Maximizing Discriminability: Applications in Neuroimaging. *request for preprint*.
- 2 G. Kiar et al. MRImages to Graphs. *work in progress*.
- 3 E. W. Bridgeford et al. Dynamic Understanding of the Working Memory Paradigm. *Computer Science Honors Thesis*.
- 4 E. W. Bridgeford et al. Functional Neurodata Graph Service: a One-Click Pipeline for Functional Connectome Estimation (FNGS). *BME Senior Design*.
- 5 E. W. Bridgeford et al. Dimensionality Reduction in the Acquisition of fMRI Brain Graphs and its Impact on Discriminability. *work in progress*.

Accepted Manuscripts

- 1 S. F. Muldoon, E. W. Bridgeford, and D. S. Bassett. [Small-World Propensity in Weighted, Real-World Networks](#). *Scientific Reports*, February 2016.

Poster Presentations

- 1 [Quantifying Small Worldness in Weighted Brain Networks: Small-World Propensity](#). In *Society for Neuroscience (SfN)*, 2015.

- 2 [Community Connectomics via Cloud Computing Utilizing m2g - a Reference Pipeline](#). In *Organization for Human Brain Mapping (OHBM)*, 2015.
- 3 [MRImages to Graphs: A One Click Community Pipeline for MR Connectome Analysis](#). In *Institute for Computational Medicine Poster Session*, 2015.
- 4 [MRImages to Graphs: A One Click Community Pipeline for MR Connectome Analysis](#). In *Kavli Coffee Hour*, 2015.

Talks

- 1 [From the Functional Brain to the Connectome: An Introduction to Neuroscience Research in the 21st Century](#). In *JHU Splash*, 2016.

Organizations

- 08/2014 – **Neurodata (formerly Open Connectome Project)**,
present Design Team Leader, 05/2016 - present.
- 01/2009 – **Hatboro YMCA Special Olympics**,
present Head Male Gymnastics Coach, 03/2011 - 05/2014.
- 04/2014 – **Sigma Chi Fraternity**, *KV Chapter*,
present Chapter Risk Manager, 09/2014 - 05/2015.

Languages

- Proficient **UNIX, R, Python, Java, LaTeX, Matlab, HTML, SQL, C, C++.**
- Basic **Javascript, CSS.**
- Tools **Git, EC2, S3, Eclipse, Vim, Android Studio, Adobe Creative Cloud.**