Teague R. Henry, Ph.D.

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Positions and Training

2021- **_Assistant Professor, Psychology and Data Science_**
University of Virginia

2020-2021 **_Postdoctoral Fellow (IMPACT T32)_**
University of Pittsburgh, Department of Psychiatry

Advisors: Brooke Molina, Ph.D, Cecile Ladouceur, Ph.D

2017-2020 **_Postdoctoral Research Associate_ in Psychology and Neuroscience**
University of North Carolina at Chapel Hill

Advisor: Jessica Cohen, Ph.D.

2018-2019 **_Visiting Instructor_ in Psychology and Neuroscience**
University of North Carolina at Chapel Hill

2012-2017 **_Ph.D.,_ Psychology and Neuroscience (Quantitative Area)**
University of North Carolina at Chapel Hill

Advisor: Kathleen Gates, Ph.D.
Dissertation Title: Non-destructive motion correction for high value functional neuroimaging data using regime switching volatility models

2015-2017 **_M.Sc.,_ Statistics, University of North Carolina at Chapel Hill**

Advisors: Steve Marron, Ph.D. & Patricia Sullivan, Ph.D.
Thesis Title: Bayesian hierarchical modeling of citizen support for U.S. conflicts

2008-2012 **_B.Sc.,_ Psychology, University of Washington-Seattle**
Minors: Mathematics, Philosophy

Advisor: Kevin King, Ph.D.
Thesis Title: The interaction of peer influence and impulsivity on adolescent alcohol use

Grants and Fellowships

2020-Present Postdoctoral NIMH T32 Fellowship (IMPACT)
Pittsburgh University, Department of Psychiatry

2014-2017 National Science Foundation Graduate Student Research Fellowship ($150,000)
Awarded to develop methods for analyzing heterogeneity within network data

Honors and Awards

2016 Best Student Presentation - AISC 2016
2016 Best Student Paper - SPB-BRiMS 2016
2011 Levinson Emerging Scholar Award, University of Washington-Seattle
2008 Merit Scholarship ($8000), University of Washington-Seattle

Publications and Presentations

Peer Reviewed Publications

1. Ye, A., Gates, K. M., **Henry, T. R.**, & Luo, L. (Accepted). Path and Directionality Discovery in Individual Dynamic Models: A Regularized Unified Structural Equation Modeling Approach for Hybrid Vector Autoregression. *Psychometrika.*

2. Jackson, J. C., Watts, J.*, **Henry, T. R.***, List, J., Forkel, R., Mucha, P. J., Greenhill, S., Gray, R., Lindquist, K. (2019). Variation and structure in emotion semantics across a global sample of languages. *Science.* (*Contributed equally)

3. MacCormack, J. K., **Henry, T. R.**, Davis, B., Oosterwijk, S., & Lindquist, K. A. (2019). Aging bodies, aging emotions: Interoceptive differences in emotion representations and daily self-reports across adulthood. *Emotion.*

4. **Henry, T. R.**, Duffy, K., Rudolph, M., Nebel, M. B. Mostofsky, S. H. & Cohen, J. R., (2019). Bridging global and local topology in whole brain networks using the network statistic jackknife. *Network Neuroscience.* Preprint: psyarxiv.com/qejmg/

5. **Henry, T. R.**, Gates, K. M., Prinstein, M. J., & Steinley, D. (2019). Modeling heterogeneous peer assort effects using finite mixture exponential random graph models. *Psychometrika.* arXiv::1610.05747

6. Gates, K., Fisher, Z., Arizmendi, C., **Henry, T. R.**, Duffy, K. & Mucha, P. (2019). Assessing the robustness of cluster solutions obtained from sparse count matrices. *Psychological Methods.*

7. Dillion, K. H., LoSavio, S. T., **Henry, T. R.**, Murphy, R. A. & Resick, P. A. (2019). The impact of military status on cognitive processing therapy outcomes in the community. *Journal of Traumatic Stress*

8. Marshall, S. A., **Henry, T. R.**, Spivey, L., Rhodes, S. D., Prinstein, M. J., & Ip, E. H. (2019). Social context of sexual minority adolescents and relationship to alcohol Use. *Journal of Adolescent Health.*

9. **Henry, T. R.**, Feczko, E., Cordova, M., Earl, E., Williams, S., Nigg, J. T., Fair D. A., & Gates, K. (2019). Comparing functional connectivity between groups with confirmatory subgrouping GIMME. *NeuroImage.*

10. **Henry, T. R.**, Banks D., Owens-Oas, D., & Chai C. (2019). Modeling community structure and topics in dynamic text networks. *Journal of Classification.* arXiv:: 1610.05756

11. **Henry, T. R.**, & Cohen, J. R. (2019). Dysfunctional brain network organization in neurodevelopmental disorders. In P. J. Laurienti, B. Munsell, & G. Wu. (Eds.) *Connectomics: Methods, Mathematical Models and Applications.*

12. **Henry, T. R.**, Marshall S., Avis, N. E., Levine, B. J., & Ip, E. (2018). Concordance network modeling and clustering of symptoms in breast cancer patients. *PLoS One.* doi: 10.1371/journal.pone.0191981

13. **Henry, T. R.**, Dichter, G., & Gates, K. (2018). Age and gender effects on intrinsic connectivity in autism using functional integration and segregation. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging.* doi: 10.1016/j.bpsc.2017.10.006

14. **Henry, T. R.**, & Gates, K. (2016). Causal search procedures for fMRI: Review and suggestions. *Behaviormetrika.* doi: 10.1007/s41237-016-0010-8

15. Gates, K., **Henry, T. R.**, Steinley, D., & Fair, D. (2016). A Monte Carlo evaluation of weighted community detection algorithms. *Frontiers in Neuroscience.* doi: 10.3389/fninf.2016.00045

16. **Henry, T. R.**, Gesell, S., & Ip, E. (2016). Social position predicting physical activity level in youth: An application of hidden Markov modeling on network statistics. *Social Computing, Behavioral-Cultural Modeling and Prediction (Conference Proceedings 2016 Volume).* * Winner of Best Student Paper at SPB-BRiMS 2016

17. **Henry, T. R.**, Gesell, S., & Ip, E. (2016). Analyzing heterogeneity in the effects of physical activity in children on social network structure and peer selection dynamics. *Network Science, 4,* 336–363. doi: 10.1017/nws.2016.2

18. Persky, A., **Henry, T. R.**, & Campbell, A. (2015). An examination of personality, attitudes, and study skills on the learning curve within a team-based learning environment. *American Journal of Pharmaceutical Education, 79*, 20. doi: 10.5688/ajpe79220

19. Logan, D. E., **Henry, T. R.**, Vaughn, M., Luk, J. W., & King, K. M. (2011). Rose-colored beer goggles: The relation between experiencing alcohol consequences and perceived likelihood and valence. *Psychology of Addictive Behaviors. 26,* 311-317. doi: 10.1037/a0024126

In Revision or Under Peer-Review

1. **Henry, T. R.**, Fisher, Z., Bollen, K. A. (Revise and Resubmit)**.** A Bayesian model averaging approach to detecting bad instruments in MIIV-SEM. arXiv:: 1808.10522

2. **Henry T. R.**, Fried, E.I. & Robinaugh, D. (Revise and Resubmit). On the control of psychological networks.

In Preparation

1. **Henry, T. R.** & Cohen, J. R. (In Prep). Functional network controllability in children with ADHD after methylphenidate administration.

2. **Henry, T. R.** (In Prep)**.** A practical guide to the significance testing of network community structures.

Chaired Symposiums

1. ***Quantitative Methods in Neuroimaging.*** Organized and Chaired Symposium at Modern Modeling Methods (M3) 2018. Speakers: Adriene Beltz, Kelly Duffy, Kathleen Gates, Jessica Cohen, **Teague R. Henry.**

2. ***Network Methods in Psychology and Neuroscience: Views, Advances and Use Cases from Clinical Science and Neuroimaging.*** Organized and Chaired Symposium at Association for Psychological Science 2020. Speakers: Eiko I. Fried, Robin Groen, Jessica Girault, Jessica Cohen, **Teague R. Henry.** (Cancelled due to COVID-19)

Refereed Posters & Symposium Talks

1. **Henry, T.R.** Controllability Centrality: A better way of identifying optimal treatment targets. (May, 2020). Presented at the annual conference of the *Association for Psychological Science,* Chicago, IL. (Cancelled due to COVID-19)

2. **Henry, T.R.** & Eiko I. Fried. Designing and Evaluating Psychological Treatments using Network Control Theory. (May, 2020). Presented at the annual conference of the *Association for Psychological Science,* Chicago, IL. (Cancelled due to COVID-19)

3. King, K.M., Louie, K.A., Smith, M.R., Seldin, K., Feil, M.C., Halvorson, M.A., Kuehn, K.S., **Henry, T.R.**, & McCabe, C.J. On the (in)validity of behavioral self-regulation tasks. (May, 2020). Presented at the annual conference of the *Association for Psychological Science,* Chicago, IL. (Cancelled due to COVID-19)

4. Ye, A., Gates, K. M., & **Henry, T. R.** (April, 2020). Discover Contemporaneous Connections in Dynamic Network: Regularized Unified SEM as A Hybrid Vector Autoregressive Model. Paper to be presented at the 2020 American Education Research Association Annual Meeting (Division D: Measurement and Research Methodology/Section 2: Quantitative Methods and Statistical Theory), San Francisco, CA. (Cancelled due to COVID-19)

5. **Henry, T.R.**, Duffy K.A., Nebel, M.B., Mostofsky, S.H., Cohen, J.R. (August, 2019) Localizing differences in functional integration in attention deficit/hyperactivity disorder. Poster presented at Flux Conference, New York, USA.

6. **Henry T.R.** & Ai, Y. (July, 2019). The Impact of Endogeneity on Network Psychometric Models. Talk given at the International Meeting of the Psychometric Society, Santiago, Chile.

7. Morgan, H., **Henry, T.R.,** Ford, C., Gates, K., Hopfinger, J. (March, 2019). Investigating training-induced changes in resting state fMRI brain connectivity, North Carolina Cognition Conference

8. Greene, R.K., **Henry, T.R,** Walsh, E., Cernasov, P., & Dichter, G.S. (2019, May). *Default mode and striatal connectivity in youth with co-occurring autism spectrum disorder and ADHD.* Poster to be presented at the International Society for Autism Research (INSAR) Annual Meeting, Montreal, Canada.

9. **Henry, T.R.,** Cohen, J.R., Dichter, G.S. & Gates, K.M. (2018 August). Age and Gender Effects on Intrinsic Connectivity in Autism using Functional Integration and Segregation. Poster Presented at Flux Satellite Conference, Chapel Hill, NC.

10. **Henry, T.R.,** & Banks, D. (2016, October). *Text networks for political blogs.* Presentation at the 2016 International Conference on Advances in Interdisciplinary Statistics and Combinatorics.
        * Talk Awarded Best Student Presentation

11. **Henry, T.R.**, Gesell, S., & Ip, E. (2016, June). *Social position predicting physical activity level in youth: An application of hidden Markov modeling on network statistics.* Presentation at SBP-BRIMS 2016.
        *Talk Awarded Best Student Paper

12. **Henry, T.R.**, Gesell, S., & Ip., E. (2016, April*). Analyzing heterogeneity in the effects of physical activity in children on social network structure and peer selection dynamics.* Symposium presentation at Sunbelt 2016 INSA Conference.

13. **Henry, T.R.**, Gates, K., Lane, S., & Damien, F. (2014, June). *Finding groups: A comparison of community detection methods for FMRI data.* Poster presented at the 2014 annual meeting of the Organization for Human Brain Mapping: Hamburg, Germany.

14. **Henry, T.R.**, Thimm, K., & King, K. M. (2013, April). *The effects of fatigue and impulsivity on behavioral measures of inhibition.* Poster presented at the biannual meeting of the Society for Research on Child Development.

15. **Henry, T.R.**, & King, K. M. (2012, June). *The effects of mis-measuring impulsivity on estimates of alcohol use.* Poster presented at the annual meeting of the Research Society on Alcoholism.

16. **Henry, T.R.**, & King, K. M. (2012, June). *The interaction of peer influence and impulsivity on adolescent alcohol use.* Poster presented at the annual Department of Psychology Honors Thesis Festival at University of Washington-Seattle.

Invited Talks and Workshops

1. **Henry T. R.** (2020, October). A methodologist's guide to the wide, weird and wonderful world of neuroimaging. Invited talk at Vanderbilt University Quantitative Methods Seminar.

2. **Henry T. R.** (2021, June). *Significance tests of community structures for samples of registered networks.* Invited talk to be given at the Classification Society Annual Meeting.

3. **Henry, T. R.** (2019, November). *A MRI processing pipeline for high performance clusters.* Invited talk for the Human Neuroimaging Group at UNC-CH

4. **Henry, T. R.** (2019, October). *On the control of psychological networks.* Invited talk at UNC-CH Department of Psychology and Neuroscience Quantitative Methodology Forum.

5. **Henry, T. R.** (2019, September). *clpipe Training Workshop.* Organized by the Human Neuroimaging Group at UNC-CH.

Software Packages

1. **Henry, T. R.** (2018). netcontrol: Control Theory Methods for Networks. R package version 0.1.0. https://CRAN.R-project.org/package=netcontrol

2. **Henry, T. R.** (2019). clpipe: A MRI Processing Pipeline for high performance clusters. Python package version 1.2.0. https://github.com/cohenlabUNC/clpipe. DOI: 10.5281/zenodo.2560743

3. **Henry, T. R.** (2018). netjack: Tools for Working with Samples of Networks. R package version 1.0.0. https://CRAN.R-project.org/package=netjack

4. Lane, S., Gates, K.M., Molenaar, P.C., Hallquist, M., Pike, H., Fisher, Z., Arizmendi C., & **Henry, T. R.** (2018). gimme: Group Iterative Multiple Model Estimation. R package version 0.4. https://CRAN.R-project.org/package=gimme

5. Gates, K.M., Fisher, Z., Arizmendi C., & **Henry T. R.** (2019). perturbR: Random Perturbation of Count Matrices. R package version 0.1.3. https://CRAN.R-project.org/package=perturbR

Technical Skills

- **Experienced with:** R, Matlab, Python, C++, C#, VBA, F#
- **Statistical Packages:** R, SPSS, SAS, STATA, Matlab

Consultation and Professional Experience

2015-Present   *Head Statistician* at Reaszon
Chapel Hill, North Carolina

Oversee design and implementation of critical reasoning assessment development

2016-2017	*Statistical Consultant,* Steve Marron, Ph.D, University of North Carolina Chapel Hill, North Carolina
2013-2014	*Biostatistician,* Edward Ip, Ph.D., Wake Forest Baptist Medical Center Winston Salem, North Carolina
2013	*Statistical Consultant,* 3C Institute for Social Development Cary, North Carolina

Teaching and Mentoring Experience

Primary Instructor
- Advanced Connectivity Modeling (Graduate Seminar, UNC-CH)   Fall 2018

Teaching Assistant
- Introduction to Psychological Statistics, Dr. Viji Sathy (UNC-CH)   Fall 2012
- Psychological Statistics, Dr. Geoffrey Loftus (UW)   Spring 2012
- Psychological Statistics, Dr. Geoffrey Loftus (UW)   Fall 2011

Senior Theses Mentored

2017-2018 **Niveditha Jagadesh**, University of North Carolina at Chapel Hill
          "Functional Connectivity Analyses of Reward Processing in Schizophrenia"

Professional Service

Ad-hoc Reviewer for: *Journal of Classification*, Journal of Personality & Social Psychology, Molecular Psychiatry, Multivariate Behavioral Research*, Network Science*, Psychometrika* , Brain Structure and Function, PLOS One, Brain Connectivity, Psychological Methods*

                                             *indicates multiple reviews