

## DAVID A. PARKER

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### EDUCATION

- August 2019 (Projected) Post-Doctoral Training.  
Olin Neuropsychiatry Research Center, Hartford Hospital/Institute of Living;  
Yale School of Medicine, Department of Psychiatry.  
Advisor: Godfrey Pearlson, M.D.
- 2013-Present  
(in progress) Ph.D. University of Georgia  
Psychology, Behavior and Brain Sciences Program  
Advisor: Brett A. Clementz, Ph.D.
- 2008-2012 B.A./B.A., University of Georgia  
Philosophy  
Cognitive Science

### PUBLISHED PAPERS

Hamm, J.P., Bobilev, A.E., Hayrynen, L.K., Hudgens-Haney, M.E., Oliver, W.T., **Parker, D.A.**, McDowell, J.E., Buckley, P.A., Clementz, B.A. (2015) Stimulus train duration moderates gamma-band auditory neural entrainment abnormalities in schizophrenia. *Schizophrenia Research*.

### MANUSCRIPTS UNDER REVIEW

**Parker, D.A.**, Hamm J.P., McDowell, J.E., Keedy, S.K, Sweeney, J.A., Gershan, E.S., Ivleva, E.I., Keshavan, M.S., Tamminga, C.A., Pearlson, G.D., Clementz, B.A. Auditory Steady-State EEG Response Across the Schizo-Bipolar Spectrum.

Trotti, R.L., **Parker, D.A.**, Sabatinelli, D., McDowell, J.E., Keedy, S.K, Sweeney, J.A., Gershan, E.S., Ivleva, E.I., Keshavan, M.S., Tamminga, C.A., Pearlson, G.D., Clementz, B.A. Contributions of Psychotic History and Lithium Status to Emotional Scene Processing in bipolar disorder: Findings from the Psychosis and Affective Research Domains and Intermediate Phenotypes Consortium (PARDIP).

### MANUSCRIPTS IN PREPARATION

**Parker, D.A.**, McDowell, J.E., Keedy, S.K, Sweeney, J.A., Gershan, E.S., Ivleva, E.I., Keshavan, M.S., Tamminga, C.A., Pearlson, G.D., Clementz, B.A. Multivariate Investigation of EEG Auditory Processing deviations in psychotic, affective psychotic and non-psychotic affective disorders.

Thomas, O.F., **Parker, D.A.**, McDowell, J.E., Keedy, S.K, Sweeney, J.A., Gershan, E.S., Ivleva, E.I., Keshavan, M.S., Tamminga, C.A., Pearlson, G.D., Clementz, B.A. Intrinsic Activity as an External Validator of Biologically Derived Psychosis Subgroupings: Findings from Bipolar-Schizophrenia Network on Intermediate Phenotypes (B-SNIP).

Clementz, B.A., **Parker, D.A.**, McDowell, J.E., Keedy, S.K, Sweeney, J.A., Gershan, E.S., Ivleva, E.I., Keshavan, M.S., Pearlson, G.D., Tamminga, C.A., Replication of Brain-Based Classification of Major Psychotic Disorders: Findings from Bipolar-Schizophrenia Network on Intermediate Phenotypes (B-SNIP).

**Parker, D.A.**, McDowell, J.E., Keedy, S.K, Sweeney, J.A., Gershan, E.S., Ivleva, E.I., Keshavan, M.S., Tamminga, C.A., Pearlson, G.D., Clementz, B.A. The Visual Steady-State Response as a Psychosis-specific Biomarker: Deviant Visual Steady State EEG Responses Identify Psychosis, not a conventional Diagnosis: Findings from Bipolar-Schizophrenia Network on Intermediate Phenotypes (B-SNIP) Consortium

**Parker, D.A.**, Hamm J.P., McDowell, J.E., Clementz, B.A. Neural Investigations of Pre-stimulus activity during “GAP” paradigms.

## FUNDING AND AWARDS

- 2018 Society of Biological Psychiatry Annual Conference Symposium Travel Award (\$350)  
2018 UGA Graduate School Travel Award, Society of Biological Psychiatry Annual Conference (\$850)  
2017 UGA Graduate School Travel Award, International Congress on Schizophrenia Research. (\$775)  
2016-Present Psychology Graduate Student Advisory Board Representative  
2016 Poster Award, Society for Psychophysiology Annual Conference (\$300)  
2016-2018 Franklin Foundation Neuroimaging Fellowship Award:  
-24 months of Graduate Research Assistantship support (22% time)  
-\$3500 in research funds (Annually)  
-\$1000 travel funds (Annually)  
2016 Franklin Foundation Travel Award (\$1200)  
2016 1<sup>st</sup> Place Paper Presentation, UGA Psi Chi Annual Convention  
2015 Michael H. Kernis Research Award: Best Presentation,  
Behavioral & Brain Sciences Program, Department of Psychology  
2015 Franklin Foundation Travel Award (\$1200)  
2013 Franklin Foundation Travel Award (\$1500)  
2012 Center for Undergraduate Research Opportunities Summer Research Fellowship (\$3 000)  
2012 Daniel S. Hart Scholarship to Outstanding Undergraduate- UGA Philosophy  
Department (\$1000)  
2008-12 HOPE Scholarship (Full tuition Scholarship)

## SYMPOSIUM PRESENTATIONS

Clementz, B.A.\*, **Parker, D.A.**, Pearlson, G.D, Keshavan, M.S., Gershan E.S., Keedy, S.E., Ivleva, E.I., McDowell, J.E., Tamminga, C.A. (2018). Replication and Extension of Psychosis Biotypes: Findings from the Bipolar-Schizophrenia Network on Intermediate Phenotypes (B-SNIP) consortium. Talk presented at the annual Australian Psychosis Conference. \***Major Contribution**

**Parker, D.A.**, McDowell, J.E., Keshavan, M.S., Pearlson, G.D, Keedy, S.E., Gershan E.S., Sweeney, J.A., Tamminga, C.A., Clementz, B.A. (2018). Multivariate Investigation of EEG Auditory Processing deviations in psychotic, affective psychotic and non-psychotic affective disorders. Talk presented at the annual Australian Psychosis Conference.

**Parker, D.A.**, Trotti, R.L., McDowell, J.E, Keedy, S.E., Sweeney, J.A., Gershan E.S., Pearlson, G.D, Keshavan, M.S., Tamminga, C.A., Clementz, B.A (2018). Auditory and Visual EEG Validators of Psychosis Biotypes, Findings from Bipolar-Schizophrenia Network on Intermediate Phenotypes (B-SNIP) Consortium. Talk presented at the symposium entitled, “Validation of Brain-Based Biotypes for Classification of Individuals on

the Psychosis Spectrum: Findings from the B-SNIP Consortium” at the Society for Biological Psychiatry Annual Meeting.

**Parker, D.A.**, Hudgens-Haney, M.E., Oliver, W.T., Hayrynen, L.K., Bobilev, A.M., Buckley, P.F., Clementz, B.A, McDowell, J.E.(2017). Measuring the Brain Before it acts: How Pre-Stimulus Neural Activity Shapes Cognitive Control in High and Low Working Memory Groups. Talk presented at Southeastern Psychological Association annual conference by The Society for Experimental Psychology and Cognitive Sciences conference (Symposium on Executive Control and Its Disorders).

**Parker, D.A.**, Hamm J.P., McDowell, J.E., Clementz, B.A. (2013) Pre-trial alpha band dynamics affect saccadic reaction times as a function of temporal expectancy. Talk presented at the nanosymposium on Functional Mechanisms of Attention at the Society for Neurosciences Annual Conference.

## ORAL PRESENTATIONS

Trotti, R.L., **Parker, D.A.**, Sabatinelli, D., Tamminga, C.A., Gershan, E.S., Keedy, S.E., Sweeney, J.A., Keshavan, M.S., Pearlson, G.D., McDowell, J.E., Clementz, B.A. (2019). Emotional Scene Processing in Psychosis Biotypes: Findings from the Bipolar-Schizophrenia Network on Intermediate Phenotypes. Talk to be presented at the Schizophrenia International Research Society.

**Parker, D.A.** (2018). Auditory and Visual Biomarkers of Psychotic and Affective Disorders: Findings from Bipolar-Schizophrenia Network on Intermediate Phenotypes (B-SNIP) Consortium. Invited talk presented at the Olin Neuropsychiatry Research Center, Hartford Hospital/Institute of Living; Yale School of Medicine, Department of Psychiatry.

**Parker, D.A.**, Kittle, F, McDowell, J.E, Sweeney, J.A., Keshavan, M.S., Tamminga, C.A., Pearlson, G.D, Clementz, B.A. (2017). Investigation of the Auditory Steady-State Response in Schizophrenia, Schizoaffective, Psychotic and Non-Psychotic Bipolar Disorders. Talk presented at the 16<sup>th</sup> International Congress on Schizophrenia Research.

**Parker, D.A.**, Hudgens-Haney, M.E., McDowell, J.E., Sabatinelli, D., Keshavan, M.S., Tamminga, C.A., Pearlson, G.D, Clementz, B.A. (2016). Multivariate Discrimination of Neural Processing in Bipolar Disorder with or without Psychosis: Findings from the Bipolar & Schizophrenia Network on Intermediate Phenotypes. Talk presented at Society of Biological Psychiatry Annual Meeting.

**Parker, D.A.**, Hudgens-Haney, M.E., McDowell, J.E., Sabatinelli, D., Keshavan, M.S., Tamminga, C.A., Pearlson, G.D., Clementz, B.A. (2016). Divergent neural processing in Bipolar Disorder with or without psychosis. Talk presented at 39<sup>th</sup> Annual Psi Chi Convention at UGA.

**Parker, D.A.**, Hudgens-Haney, M.E., Oliver, W.T., Hayrynen, L.K., Kinght, J.B., Bobilev, A.M., Hamm, J.P, Arkin, S.C, Buckley, P.F., McDowell, J.E., Clementz, B.A. (2015). Reduced Steady-State Phase Synchronization during a Cognitive Control task. Talk presented at the 15<sup>th</sup> International Congress on Schizophrenia Research.

## POSTERS

Edge, E, **Parker, D.A.**, Hamm, J.P., Buckley P.F., McDowell, J.E., Clementz, B.A. (2019). Visual steady state response differences related to cognition rather than psychopathology. Poster to be presented at the Society of Biological Psychiatry Annual Meeting.

Burton, C.R., Jackson, B.S., Huang L.Y., **Parker, D.A.**, Schaeffer, D.J., Gershan E.S., Keshavan, M.S., Pearlson, G.D, Tamminga, C.A., Clementz, B.A., McDowell, J.E. (2018). Neural white matter distinctions in biologically classified psychosis. Poster presented at the Society for Neurosciences Annual Conference.

Edge, E, **Parker, D.A.**, Hamm, J.P., Buckley P.F., McDowell, J.E., Clementz, B.A. (2018).

Visual steady state response differences related to cognition rather than psychopathology. Poster presented at the Society for Psychophysiological Research Annual Meeting.

Thomas, O.F.\*, **Parker, D.A.**, McDowell, J.E., Keedy, S.E., Gershan E.S., Ivleva, E.I., Pearlson, G.D., Keshavan, M.S., Tamminga, C.A., Sweeney, J.A., Clementz, B.A (2018). Intrinsic Resting State Activity as an External Validator of Biologically Derived Psychosis Subgroupings: Findings from Bipolar-Schizophrenia Network on Intermediate Phenotypes (B-SNIP). Poster presented at the Society for Psychophysiological Research Annual Meeting. **\*Mentored Poster**

Trotti, R.L., **Parker, D.A.**, Sabatinelli, D., Tamminga, C.A., Gershan, E.S., Keedy, S.E., Sweeney, J.A., Keshavan, M.S., Pearlson, G.D., McDowell, J.E., Clementz, B.A. (2018). Effect of Lithium on Emotional Processing in bipolar disorder with and without Psychosis: Findings from the Psychosis and Affective Research Domains and Intermediate Phenotypes Consortium. Poster presented at the Society for Psychophysiological Research Annual Meeting.

**Parker, D.A.**, McDowell, J.E., Keedy, S.E., Gershan E.S., Ivleva, E.I., Pearlson, G.D., Keshavan, M.S., Tamminga, C.A., Sweeney, J.A., Clementz, B.A (2018). Investigation of the Visual Steady-State Response as a Psychosis Biomarker: Findings from Bipolar-Schizophrenia Network on Intermediate Phenotypes (B-SNIP) Consortium. Poster presented at the Society for Psychophysiological Research Annual Meeting.

Trotti, R.L., **Parker, D.A.**, Sabatinelli, D., Tamminga, C.A., Gershan, E.S., Keedy, S.E., Sweeney, J.A., Keshavan, M.S., Pearlson, G.D., McDowell, J.E., Clementz, B.A. (2018). Emotional processing in Bipolar Disorder With and Without Psychosis: Findings from the Psychosis and Affective Research Domains and Intermediate Phenotypes Consortium. Poster presented at Society of Biological Psychiatry Annual Meeting.

Schneider, Z\*, **Parker, D.A.**, Kittle, F McDowell, J.E., Sweeney, J.A., Keshavan, M.S., Tamminga, C.A., Pearlson, G.D., Clementz, B.A (2017). Investigation of the Visual Steady-State Response in Schizophrenia, Schizoaffective, Psychotic and Non-Psychotic Bipolar Disorders. Poster presented at the 16<sup>th</sup> International Congress on Schizophrenia Research. **\*Mentored Poster**

Huang, L.-Y.\*, **Parker, D.A.**, Hill, S.K., Sweeney, J.A., Pearlson, C.A., Tamminga, C.A., Keshavan, M.S., Clementz, B.A. (2016). Frontal Neural Dysfunction Implicated in Executive Inflexibility in Psychosis. Poster presented at Society for Neurosciences Annual conference. **\*Mentored Poster**

**Parker, D.A.**, McDowell, J.E., Sabatinelli, D., Keshavan, M.S., Tamminga, C.A., Pearlson, G.D., Clementz, B.A (2016). Auditory Steady-State Response in Bipolar Disorder with or without Psychosis: Findings from the Bipolar & Schizophrenia Network on Intermediate Phenotypes. Poster presented at Society of Psychophysiological Research Annual Meeting.

Hart, R., Bobilev, A., Oliver, W., Hudgens-Haney, M., Hayrynen, L., **Parker, D.A.**, Buckley, P., McDowell, J. & Clementz, B.A. (2015). Resting state oscillatory activation associated with schizophrenia and high and low cognitive control. Poster presented at Society for Neuroscience annual conference.

Oliver, W., Hamm, J., Bobilev, A., Hudgens-Haney, M., Hayrynen, L., **Parker, D.A.**, Hart, R., Buckley, P., Sweeney, J., McDowell, J., & Clementz, B. (2015) Neural oscillatory patterns during sustained visual attention task in schizophrenia and high/low cognitive control. Poster presented at the Society for Psychophysiological Research Annual Meeting.

**Parker, D.A.**, Hudgens-Haney, M.E., Oliver, W.T., Hayrynen, L.K., Kinght, J.B., Bobilev, A.M., Hamm, J.P, Arkin, S.C, Buckley, P.F., McDowell, J.E., Clementz, B.A. (2014). Alpha band dynamics in Schizophrenia during an ocular motor inhibition task. Poster presented at Society for Psychophysiological Research Annual Conference.

Arkin, S., Bobilev, A., Rodrigue, A., Oliver, W., Hudgens-Haney, M., Schaeffer, D., Hayrynen, L., Hamm, J., **Parker, D.A.**, Weinberger, A., McDowell, J., & Clementz, B.A. (2014) Resting state neural activity analysis

between schizophrenia patients and high and low working memory capacity controls via EEG and fMR techniques. Poster presented at BIRC SEC mini-conference, Athens, GA.

## UNDERGRADUATE PRESENTATIONS

**Parker, D.A.**, Hamm J.P., Clementz, B.A. McDowell, JE. (2013) Investigating the GAP effect in the Generation of Express Saccades. Talk presented at the Center for Undergraduate Research Opportunities Symposium at the University of Georgia.

**Parker, D.A.**, Schaefer, D. J., McDowell, JE. (2012) The effects of Volume Removal on Fractional Anisotropy. Talk and Poster presented at the Center for Undergraduate Research Opportunities Symposium at the University of Georgia.

**Parker, D.A.** (2011) Is Embodied Cognition an Alternative Theory of Cognition? Talk Presented at the Classic City Undergraduate Philosophy Conference at University of Georgia.

## EXPERIENCE

### Consulting

2019-Present Olin Neuropsychiatry Research Center, Hartford Hospital/Institute of Living; Yale School of Medicine, Department of Psychiatry-Advisor: Godfrey Pearlson, M.D. Brain and Alcohol Research with College Students (BARCS). EEG analysis 10 hours per week.

### Research

2013-Present **Graduate Student,**  
Clinical and Cognitive Neuroscience Laboratory (Brett Clementz, Ph.D. and Jennifer McDowell, Ph.D.)-Department of Psychology, University of Georgia.

2011-2013 **Research Assistant/Lab Manager,**  
Clinical and Cognitive Neuroscience Laboratory (Brett Clementz, Ph.D. and Jennifer McDowell Ph.D.)- Department of Psychology, University of Georgia.

Summer 2011 **Independent Researcher,**  
Investigated the philosophical implications of dynamic system theory and embodied cognition under the direction of Sarah Wright, Ph.D.-Department of Philosophy, University of Georgia.

### Workshop

2016 Time Frequency Decomposition: Methods and Challenges. **Society for Psychophysiology Annual Conference**

2016 Advanced M/EEG Statistical Parametric Mapping (SPM) Workshop at **Wellcome Trust Centre for Neuroimaging** at the University City of London May 14-16<sup>th</sup>

- Fusion M/EEG Pre-processing and Analysis
- Advanced M/EEG Source Analysis
- Dynamic Causal Modeling and Bayesian Inference
  - ERP

- Steady-State
- Phase-Coupling
- LFP
- Advanced Model testing

## Teaching

- 2017 **Guest Lecturer**, University of Georgia, School of Social Work  
SOWK 7212- Assessment and Psychopathology (Fall-1 Lecture)
- 2016 **Guest Lecturer**, University of Georgia  
Psych 4300-EEG and MEG methods and Demonstration (Spring-4 Lectures)
- 2015 **Graduate Teaching Assistant**, University of Georgia  
Psych 3890-Research Methods (Fall)
- 2015 **Guest Lecturer**, University of Georgia  
Psych 4300-EEG methods and Demonstration (Spring-2 Lectures))
- 2014 **Graduate Teaching Assistant**, University of Georgia  
Psych 1101- Introduction to Psychology (Fall)
- 2014 **Guest Lecturer**, University of Georgia  
Psych 4300-EEG/MEG methods and Demonstration (Spring-4 Lectures)
- 2013 **Graduate Teaching Assistant**, University of Georgia  
Psych 4100- Cognitive Psychology (Fall)

## Clinical Training for Research Purposes

- 2015 Trained to administer the Positive and Negative Syndrome Scale  
(**PANSS**) for research projects.
- 2014 Trained to administer the Mood and Psychotic Disorders sections of the Structured  
Clinical Interview for DSM Diagnosis (**SCID**) for research projects

## PROFESSIONAL ACTIVITIES

### Professional Organizations:

- 2014-Present Society for Psychophysiological Research  
2016- Committee to Promote Student Interests
- 2013-2014 Society for Neuroscience
- 2010-Present Phi Sigma Tau, UGA Chapter President 2010-11  
-Organized 6 Special Lecture  
-Organized Classic City Undergraduate Annual Conference at UGA  
-Students from 7 states from across the country attended

### Service:

- 2013-Present Maintained Liquid Helium Levels in MEG system at BIRC
- 2013-Present Undergraduate Mentoring CCNL: *Connor Lawhead, Megan Rogers, Rebekah Trotti, Meagan Buford, Zoe Shneider, Tiffany Javadi, Mitra Kumareswaran, Ian Berger.*

Last updated: 01/14/2019