Christopher Scott Friedman
Curriculum Vitae

Education

Drexel University, Philadelphia, PA   Graduation: December 2016
- Bachelor of Science; Major: Psychology
- Minors: Philosophy, Bioscience and Society
- Cumulative GPA; 3.66; Major GPA: 3.75

Research Experience

A.J. Drexel Autism Institute, Drexel University, Philadelphia, PA
Institute within Drexel performing research with and delivering interventions to children and adults on the autism spectrum. Worked on a team focusing on social networks in autism.
Data Analyst, January 2017–Present)
- Manage data collected from multi-site studies and build them into cohesive data repositories
- Build data analysis pipeline to monitor data quality in real time and communicate data status in multi-site calls and reports.
- Implement new strategies for transforming app-usage data into social-network data
- Train new laboratory members in using R for social network analysis

Creativity Research Laboratory, Drexel University, Philadelphia, PA
Laboratory within Drexel's Psychology Department, using new and cutting-edge brain-scanning technologies to study the roots behind insight and creativity.
Laboratory Assistant, September 2015–July 2017
- Designed study collecting brainwave data using Python and EEG collection tools.
- Performed Data Quality Assessment and Improvement using Matlab
- Designed, collected data for, and presented self-initiated research study
- Implemented new brain-wave detection methods using open-source hardware and signal processing software.

Drexel University, Philadelphia, PA
Undergraduate Research Assistant, November 2014–March 2016
Department of Psychology, Nezu Stress and Coping Laboratory (Principal Investigators: Christine M. Nezu, Arthur Nezu)
- Entered data for a study evaluating problem-solving therapy for patients with high blood pressure
- Recruited patients in a heart failure clinic to take part in a study comparing the effectiveness of two delivery mediums of a specific cognitive-behavioral therapy
- Ran undergraduate participants through a study comparing models of problem solving
- Participated in weekly lab meetings

The Children's Hospital of Philadelphia, Philadelphia, PA
Research Assistant, September 2014–April 2015
Division of Plastic Surgery (Principal Investigator: Oksana A. Jackson, MD)

- Responsible for recruitment, outreach, and informed consenting of children, adolescents, and their families for three studies
- Entered data, provided quality assurance and maintained study records for four studies, including a national multicenter study
- Maintained and submitted revisions and amendments to the Hospital's IRB

Publications

Peer Reviewed Journal Publications

1. Chang, B. L., Wilson, A. J., Chin, B. C., **Friedman, C**., & Jackson, O. A. (2017). Influence of Standardized Orientation on Patient Perception of Perioperative Care following Alveolar Cleft Repair: A Survey Based Study of Patients Treated in a Large Academic Medical Center. The Cleft Palate-Craniofacial Journal, 54(3), 287–294.
2. Chang, B. L., Wilson, A. J., Samra, F., Konieczny, T., Percec, I., Lanning, M., **Friedman, C.**, and Jackson, O. (2018). Quantifying Pediatric Facial Palsy:: Using Digital Image Correlation to Objectively Characterize Pediatric Facial Symmetry. The Cleft Palate-Craniofacial Journal, 55(1), 119–126.

Articles Under Review

1. Elizabeth McGhee Hassrick, Collette Sosnowy, **Chris Friedman**, Jessica Walton, Paul Shattuck. "Autism Support Networks and the Services Cliff: Mappings social capital inequalities for young adults with ASD post-transition" Submitted for peer review at Autism in Adulthood.

Working Papers

2. Elizabeth McGhee Hassrick, Wendy Shih, **Chris Friedman**, Zoya Shamsi, Tris Smith, David Mandell, Aubyn Stahmer and Connie Kasari. "Social Networks and Perceived Transition Success: The Role of Social Networks in Supporting Children with ASD during School Transitions" To be submitted for peer review at SOCIUS.
3. McGhee Hassrick, Elizabeth, Suzannah Iadarola, **Chris Friedman**, Zoya Shamsi, Jenny Chow, Lindsay Hauptam, Briana Bronstein, Amber Fitzgerald, Kathleen Carley, Deborah Linares, Aubyn Stahmer, David Mandell, Peter Mundy, Tris Smith, and Connie Kasari "Measuring Collaborative Networks among Parents and Autism Intervention Providers during School Transition." To be submitted for peer review at "The Journal of Behavioral Health Services & Research.
4. **Chris Friedman**, Elizabeth McGhee Hassrick, Sarah Fulton Vejnoska, Aubyn Stahmer, David Mandel, Tris Smith, Peter Mundy and Connie Kasari."Generating Networks from Digital Trace Data".

Peer Reviewed Conference Presentations

1. Elizabeth McGhee Hassrick, Sheryl Kataoka, Felica Jones, **Chris Freidman**, Nicole Sparapani, Deborah Linares, Aubyn Stahmer, Tris Smith, David Mandell, Peter Mundy, Connie Kasari. (2019) Using Social Network Analysis to Measure Community

Collaborations in the Autism Intervention Research Network (AIRB3). 2019 Autism CARES Grantee Meeting

2. **Chris Friedman**, Elizabeth McGhee Hassrick, Sarah Fulton Vejnoska, Aubyn Stahmer, David Mandel, Tris Smith, Peter Mundy and Connie Kasari. (2019) "Digital Trace networks" Sunbelt Network Conference.

3. E. McGhee Hassrick, C. Sosnowy, P. Shattuck, J. L. Walton and **C. Friedman** (2019). "Mapping Gender Inequalities for Young Adults with ASD Using Egocentric Social Network Measures Organized session: Gender and social networks." Sunbelt Network Conference.

4. E. McGhee Hassrick, C. Sosnowy, P. Shattuck, J. L. Walton and **C. Friedman** (2019). "ASD Support Networks and the Services Cliff: Mapping Social Capital Inequalities for Young Adults with ASD Post-Transition." Poster Presentation for 2019 INSAR at Montreal, Canada.

5. B. Bronstein, E. McGhee Hassrick, **C. Friedman**, S. Iadarola, A. R. Fitzgerald, J. Chiappe, L. Hauptman, A. C. Stahmer, D. S. Mandell and C. Kasari (2019). "Provider Use of Evidence-Based Practices for Students with Autism in School-Age Transition Periods." Poster for 2019 INSAR at Montreal, Canada.

6. **C. Friedman**, E. McGhee Hassrick, S. F. Vejnoska, A. C. Stahmer, D. S. Mandell, P. Mundy and C. Kasari (2019). "Monitoring Electronic Communication of Autism Support Teams through Hover Reporting." Poster for 2019 INSAR at Montreal, Canada.

7. McGhee Hassrick, E., Suzannah Iadarola, **Chris Friedman**, Zoya Shamsi, Jenny Chow, Lindsay Hauptam, Briana Bronstein, Amber Fitzgerald, Kathleen Carley, Deborah Linares, Aubyn Stahmer, David Mandell, Peter Mundy, Tris Smith, and Connie Kasari. (2018). "Pilot Data Findings: Connections between Low-Resource Parents of Children with ASD and School Providers Pre- and Post-Transitions between Schools" Poster at INSAR, Rotterdam, Netherlands

8. E. McGhee Hassrick, W. I. Shih, **C. Friedman**, Z. Shamsi, S. F. Vejnoska, B. Bronstein, D. E. Linares, K. M. Carley, A. C. Stahmer, T. Smith, P. Mundy, D. S. Mandell and C. Kasari. (2018). "Care Coordination: Testing Associations between Social Networks and the Perceived Transition Success for Low Resource Children with ASD" Poster at INSAR 2018, Rotterdam, Netherlands

9. McGhee Hassrick, Elizabeth, Carley, Kathleen and **Chris Friedman**. (2018). "Social Capital Inequalities: Measuring Autism Resources Embedded in the Egocentric Treatment Networks of Children with ASD" Roundtable presentation at ASA. Philadelphia, PA.

10. McGhee Hassrick, E., Wendy Shih, Heather Nuske, **Chris Friedman**, Zoya Shamsi, Sarah Fulton Vejnoska, Deborah Linares, Kathleen Carley, Aubyn Stahmer, Tris Smith, David Mandell, Peter Mundy and Connie Kasari (2017) "AIRBIII: Measuring Collaborative Networks among Parents and Autism Intervention Providers during the Pre-transition Period." Poster presented at IMFAR conference, San Francisco.

Conference Submissions Under Review

1. Nishita Dsouza, Elizabeth McGhee Hassrick, Kristin Giordano, **Chris Friedman**, & Ana P. Martinez-Donate. "Analysis of Network Characteristics of Latino-Serving Organizations in Philadelphia" 2019 APHA at Philadelphia, PA

2. Ana P. Martinez-Donate, Elizabeth McGhee Hassrick, Yoshiaki Yamasaki, Kristin Giordano, Nishita Dsouza, **Chris Friedman**, Omar Martinez, Cristina Martinez, Anita Joshi. "CRISOL: Integrating Efforts to Understand and Address Syndemic Health Conditions Afflicting Young Latino Immigrants" 2019 APHA at Philadelphia, PA

3. Dsouza, N, McGhee-Hassrick, E, Giordano, K, **Friedman, C** & Martinez-Donate A. Analysis of Network Characteristics of Latino-Serving Organizations in Philadelphia. Abstract submitted for poster presentation at the 2019 College of Physicians' Public Health Student Poster Session, May 2, 2019: Philadelphia, PA.

Honors and Awards

Dean's Scholarship, Drexel University	September 2012–Present
Dean's List, Drexel University	Spring 2014–Present
Psi Chi, International Honor Society in Psychology	Inducted October 2013
Eagle Scout, Boy Scouts of America	Awarded March 2012

Key Technical Skills

Coding and Data Analysis Skills:
R, Python, SQL, HTML/CSS, SPSS, Matlab, ORA, SPM, EEGLab.

Research and Data Collection Skills:
Qualtrics, Mendeley, EndNote, RedCap, BASC-2 ASSIST, SF12-v2 Scoring Software,

Other Key Technical Skills:
EpicCare, Microsoft Office (Excel, PowerPoint, Word), Google Productivity Suite (Docs, Drive, Sheets, Slides), OpenBCI, OpenVibe.

Relevant Trainings

Methodology:
University of Maryland, Social Network Analysis Workshop
Research And Scientific Ethics:
CITI Training Modules: Good Clinical Practice and ICH Course, Responsible Conduct of Research for Postdocs, Fellows, Trainees, and NIH Early Career Investigators Course, Social and Behavioral Research Course, Health Information Privacy and Security – Medical, Biomedical, Nursing, Public Heath, and Psychology Course, Medical, Biomedical, Nursing, Public Heath, and Psychology Research Investigators Course; Drexel University's Core IRB Trainings

Relevant Coursework

Computer-Assisted Data Analysis	Research Methods	Cognitive Neuroscience
Memory	Psychology of Learning	Physiological Psychology
Neuroethics	Evolutionary Psychology	Ethics

Professional Affiliations

International Society for Social Network Analysis, Member, 2019 – Present
American Psychological Association, Student Affiliate, 2015–2017
Association for Psychological Science, Student Affiliate, 2016–2017