Patrick J. Ryan

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EDUCATION

The Pennsylvania State University (Penn State): **(Expected Summer 2021)**
Ph.D. (in progress), Human Development and Family Studies

Trinity College Dublin: **2013 - 2014**
M.Sc. Neuroscience

Emmanuel College: **2008 - 2011**
B.A. Psychology with concentration in Neuroscience

EXPERIENCE

Researcher (Penn State Department of Psychology) **Jan 2016 – Present**

- Work on an NIH-funded project using multi-modal data collection to investigate self-regulation across various emotional and cognitive contexts
- Integrate several data streams in order to produce multivariate data frames for analysis
- Provide recommendations and training on the collection and analysis of physiological data

Researcher (Penn State Department of HDFS) **Aug 2015 – Present**

- Locate, read, and summarize relevant literature related to various projects in the Child Brain Development lab
- Clean, manage, and analyze behavioral and physiological data for several ongoing multi-site longitudinal projects
- Train undergraduate research assistants on collecting, cleaning, and interpreting physiological data

Teaching assistant (Penn State; Remote) **Fall 2015 - Present**

- Assist with various responsibilities for administering both in-person and online classes
- Grade exams, quizzes, and written assignments in a timely manner
- Provide students with critical feedback on assignments, resumes and cover letters
- Hold weekly office hours to meet with students about grades, course content, and make-up assignments

Lecturer (Emmanuel College) **Fall 2019**

- Developed and taught an undergraduate course on Child Development
- Prepared and delivered lectures twice a week on a range of topics
- Created and graded all assignments, including exams, quizzes, and essays
- Met with students one-on-one to provide personalized feedback and assistance with academic development

PROGRAMMING & STATISTICAL SKILLS

- 5 years of experience with R programming and R Studio, including using R markdowns and notebooks to produce statistical reports
- Highly proficient in both using and teaching the tidyverse suite of R packages for data management, data visualization and process automation
- Experience developing and maintaining Shiny applications using R Studio
- Working knowledge of SAS, SPSS, SQL, and Excel
- Graduate level training in advanced statistical methods, including multivariate regression, multilevel modeling, structural equation modeling, and longitudinal data analysis

PUBLICATIONS & PRESENTATIONS

Cortical and affective regulation of autonomic cordination (Gatzke-Kopp, L.M., Benson, L., **Ryan, P.J.,** & Ram, N., 2020). *Psychophysiology.*

The association between perinatal hypoxia exposure and externalizing symptoms and risky decision making in childhood is moderated by DRD2 genotype (White, R**.**, **Ryan, P.J.,** Lydon-Staley, D., & Gatzke-Kopp, L.M., 2019). *Developmental Psychobiology.*

Human males appear more prepared than females to resolve conflicts with same-sex peers. (Benenson, J. F., Kuhn, M.N., **Ryan, P. J**., Ferranti, A.J., Blondin, R., Shea, M., & Wrangham, R.W., 2014). *Human Nature*, 1-18.

Petrie, D., **Ryan, P.J.,** Roberts, N., Gatzke-Kopp, L., & Geier, C. Examining the effects of socio-emotional contexts on rewarded antisaccade task performance*.* Poster presented at the *International Congress for Cognitive Developmental* Neuroscience, Berlin, Germany, 2018.

Ryan, P.J., Benson, L., Ram, N., Gatzke-Kopp, L.M. Neurovisceral Integration: Coordinated activity of sympathetic, parasympathetic, and cortical systems within individuals. Poster presented at the *Society for Psychophysiological Research*, Vienna, Austria, 2018.

Ryan, P.J., White, R., Lydon-Staley, D., & Gatzke-Kopp, L. Glucocorticoid receptor gene moderates the effects of gestational stress on effort tolerance in middle childhood. Poster presented at *Society for Research on Child Development Biennial Meeting,* Austin, TX, USA, 2017.

White, R., **Ryan, P.J.,** Lydon-Staley, D., & Gatzke-Kopp, L. DRD2 Taq1A polymorphism moderates the effect of pre- and perinatal exposure to hypoxic conditions on probability discounting. Poster presented at *Society for Research on Child Development Biennial Meeting,* Austin, TX, USA, 2017.

White, R**.**, **Ryan, P.J.,** Lydon-Staley, D., & Gatzke-Kopp, L. COMT gene variants differentially moderate the effects of physical and interpersonal risk factors on children's delay tolerance. Poster presented at *Society for Research on Child Development Biennial Meeting,* Austin, TX, USA, 2017.