

EMMA ROELLKE

EDUCATION

Bryn Mawr College Premedical Post-Baccalaureate Program, Bryn Mawr, PA

- Program in Pre-Medical Studies, May 2018

Vassar College, Poughkeepsie, NY

- Bachelor of Arts in Psychological Science and Political Science, May 2016
- Graduated Phi Beta Kappa with departmental honors in Psychological Science and with general honors
- Cumulative GPA: 3.90; Science GPA: 3.85

HEALTH-RELATED RESEARCH EXPERIENCE

Clinical Research Associate, Dept of Pulmonology/Critical Care, NYU Langone, New York, NY July 2018 – Present

- Serve as liaison between clinical and research teams leading multi-site, international study investigating resuscitation protocols and patient outcomes
- Paged to all cardiopulmonary arrest events hospital-wide to monitor and collect data on patient status
- Abstract data from patient medical records; conduct interviews with CPA survivors to assess neurocognitive functioning
- Spearhead statistical data analyses, grant proposal writing, and manuscript preparation associated with ongoing lab projects
- Trained in EEG, cerebral oximetry, and end tidal CO₂; CPR certified

Neurobehavioral Lab Manager, Dept of Psychological Science – Vassar College, Poughkeepsie, NY Jan 2014 – Sept 2017

- Oversaw Dr. Abigail Baird's lab operations including human subjects research, data analysis, methodology construction, manuscript preparation, and inter-institutional communication
- Trained research assistants, including tutorials for SPM, SPSS, Excel, and other data processing software
- Created comprehensive, interactive lab website using HTML coding (www.teenspecies.com)
- Engaged in peer-review process and provided written feedback to be shared with journal editors
- Main academic projects: Comparative fMRI study on prefrontal versus insular activation during decision making tasks; investigation of contextual components of mass school shootings; academic press chapter on the neurocognitive components of female adolescent moral reasoning; fMRI study on adolescents' neural responses to peer versus adult faces

Co-Investigator, Dept of Psychological Science – Vassar College, Poughkeepsie, NY Aug 2015 – May 2016

- Developed and executed year-long experiment in collaboration with Dr. Debra Zeifman, studying men's endocrine responses to infant distress signals
- Managed sensitive participant information and consent; collected, processed, stored, and shipped biological specimens in compliance with IRB regulations
- Recruited participants, oversaw data collection, analyzed statistical data, and prepared manuscript for peer review

Academic Intern, Dept of Psychological Science — Vassar College, Poughkeepsie, NY Aug 2015 — Dec 2015

- Selected by Department faculty to serve as the academic intern for a semester-long lab course in behavioral psychology
- Collaborated with Dr. Jannay Morrow to compile literature reviews and develop research methodologies
- Managed lab schedules, trained research assistants, and oversaw human subjects data collection/analysis
- Main academic project: Study of effects of positive self-talk on self-esteem, mood state, and PNS arousal

Clinical Immunology Research Fellow, ISSM/Mount Sinai Hospital, New York, NY June 2015 — Aug 2015

- One of 20 undergraduates accepted to Icahn School of Medicine's Summer Undergraduate Research Program for students pursuing careers in biomedical research and clinical medicine
- Worked under Dr. Charlotte Cunningham-Rundles conducting laboratory experiments including ELISA, FACS, and PCR to determine the etiology of common variable immunodeficiency (CVID)
- Stored and shipped biological specimens and handled sensitive patient information under HIPAA regulations
- Main project: Study of BAFF activation and B cell dysfunction in patients with known antibody deficiency

CLINICAL EXPERIENCE

Bryn Mawr College Healthy Living Program — Bryn Mawr, PA Sept 2017 — May 2018

- Selected by College clinical staff to serve as the program health coach, promoting healthy living habits for undergraduate students on campus with a particular focus on individuals at risk for diabetes and/or heart disease

Emma Roellke

- Report directly to College physician, dietician, campus counselor, and athletic trainer with updates on participant engagement and progress
- Serve on steering committee, facilitate behavioral health meetings, provide insights and suggestions for program enhancements, and manage administrative duties including meeting minutes, scheduling, and delegation of tasks

Veterinary Referral Practice — Center for Veterinary Care, Millbrook, NY June 2016 — Aug 2017

- Assisted veterinarians with routine small animal care including physical exams, inoculations, and phlebotomy
- Facilitated client-veterinarian communications by relaying treatment instructions and delivering prescriptions to clients
- Observed surgical procedures including emergency thoracotomy, foreign body extraction, and routine spay/neuter

Immunodeficiency Clinic — Mount Sinai Hospital, New York, NY June 2015 — Aug 2015

- Shadowed physicians and fellows in the hospital's immunodeficiency clinic, engaging with immunocompromised infants, children, and adults with syndromes such as CVID, IgAD, NEMO deficiency syndrome, and XLA

Interventional and Diagnostic Radiology — DRA Imaging, Poughkeepsie, NY Jan 2015 – June 2015

- Observed physicians and physician assistants reading images and performing procedures including thoracentesis, paracentesis, phlebotomy, mammogram, ultrasound-guided breast biopsy, CT-guided liver biopsy, and endovascular coiling
- Assisted in monitoring and soothing patients during procedures, most of which only involved local anesthesia

HONORS AND AWARDS

Phi Beta Kappa Member, May 2016

Inducted into national academic honor society for demonstration of academic achievement and intellectual adventurousness

Edith Glickman Neisser Prize Recipient, May 2016

Awarded senior academic prize at Vassar College for commitment to study of child development

Sigma Xi Prize Recipient, May 2016

Inducted into national honor society in research for distinguished record of scientific inquiry at Vassar College

Campus Initiatives Honoree, May 2016

Recognized by Vassar College administration for volunteer contributions to campus life

Psi Chi Member, May 2015

Selected by Vassar College faculty to be inducted into the international honor society in psychology

Truman Scholarship Nominee, December 2014

Nominated as a finalist to progress to national scholarship competition for commitment to careers in public service

Tananbaum Fellow, December 2014

Received selective fellowship for Vassar College juniors demonstrating commitment to professional growth and success

Undergraduate Research Summer Institute Fellow, May 2014

Awarded fellowship for summer study of neurobehavioral science at Vassar College

SKILLS

Computer: Microsoft Office (Word, Excel, PowerPoint), HTML coding, SPSS, SPM/Marsbar, Adobe Photoshop

Research: Participant recruitment, data collection, coding, analysis, scientific manuscript preparation, IRB/HIPAA trained

Wet Lab: PCR, ELISA, FACS, PBMC isolation, cell culture, immunofluorescent staining/imaging, spectrophotometry, distillation, NMR/IR/mass spectra interpretation, column chromatography

Clinical: CPR certified, EEG, end tidal CO₂, cerebral oximetry

Languages: Spanish (basic working proficiency)

ADDITIONAL EXPERIENCE, LEADERSHIP, AND ACTIVITIES

Campaign Caller, Hillary for America, August 2016 — November 2016

Editorial Assistant, Miscellany News – Vassar College, September 2012 – May 2016

Peer Tutor and Workshop Coordinator, R.E.A.L. Skills Network, September 2013 – May 2015

Assistant Stage Manager, Student Theater – Vassar College, January 2014 – March 2014

Freelance Writer and Editorial Department Intern, Hudson Valley Magazine, Summers 2012 — 2013

Camp Counselor, Poughkeepsie Day School Summer Camp, Summers 2008 – 2013

Campaign Intern, Dan French for Dutchess County Executive, June 2011 – November 2011

SELECTION OF POSTER AND PAPER PRESENTATIONS

Roellke E., Raiss M., King S., Lytel-Sternberg J., Zeifman D. (2017). Infant crying level elicits divergent testosterone response in fathers and non-fathers. 13th International Infant Cry Research Workshop: July 2017, Rovereto, Italy.

Roellke, E., Raiss, M., King, S., Deane, C., Coley, K., Mittman, A., & Zeifman, D. M. (2016). Infant temperament and abuse: Assessing hormonal and behavioral responses to infant distress signals in male undergraduates. Senior Empirical Thesis, Department of Psychological Science/Neuroscience and Behavior Program, Vassar College: May 2016, Poughkeepsie, New York.

Maglione, P. J., Cols, M., **Roellke, E.**, Radigan, L., & Cunningham-Rundles, C. (2016). Role of B cell activating factor in COVID lung disease. AAAAI Annual Meeting: March 2016, Los Angeles, CA.

Roellke, E., Maglione, P. J., Radigan, L., Cunningham-Rundles, L. (2015). BAFF elevation and B cell dysfunction in patients with known COVID. Summer Undergraduate Research Program (SURP), Icahn School of Medicine at Mount Sinai: August 2015, New York, New York.

Roellke, E., Wheeler, C., & Baird, A. A. (2015). Mass school shootings: Potential risk of school size and student-teacher ratio. Association for Psychological Science Annual Conference: May 2015, New York, New York.

Wheeler, C., **Roellke, E.**, & Baird, A. A. (2015). Neural correlates of peer influence in adolescence. Association for Psychological Science Annual Conference: May 2015, New York, New York.

PUBLICATIONS

Roellke, E., Raiss, M., King, S., Lytel-Sternberg, J., & Zeifman, D. M. (*in press*). Infant crying levels elicit divergent testosterone response in men. *Parenting: Science and Practice*.

Baird, A. A., **Roellke, E. V.**, & Zeifman, D. M. (2017). Alone and adrift: The association between mass school shootings, school size, and student support. *The Social Science Journal*, 54, 1-10.

Baird, A. A. & **Roellke, E. V.** (2015). Girl Uninterrupted: The neural basis of moral development among adolescent females, in Decety, J. & Wheatley, T. (Eds.) *The Moral Brain: A Multidisciplinary Perspective*. Cambridge, MA: MIT Press.

Baird, A. A., & **Roellke, E. V.** (*manuscript in preparation*). What were you thinking? A neural signature associated with adolescent reasoning.

REFERENCES

Available Upon Request