

# EMMA ROELLKE

## EDUCATION

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### **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

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### **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 CO<sub>2</sub>; 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](http://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 – Sept 2017

- 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

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### **Bryn Mawr College Healthy Living Program** — Bryn Mawr, PA Sept 2017 — Present

- 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
- 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, phlebectomy, 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

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**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

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**SKILLS**

<b>Computer:</b>	Microsoft Office (Word, Excel, PowerPoint), HTML coding, SPSS, SPM/Marsbar, Adobe Photoshop
<b>Research:</b>	Participant recruitment, data collection, coding, analysis, scientific manuscript preparation, IRB/HIPAA trained
<b>Clinical:</b>	CPR certified, EEG, end tidal CO <sub>2</sub> , cerebral oximetry
<b>Wet Lab:</b>	PCR, ELISA, FACS, PBMC isolation, cell culture, immunofluorescent staining/imaging, spectrophotometry, distillation, NMR/IR/mass spectra interpretation, column chromatography
<b>Languages:</b>	Spanish (basic working proficiency)

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**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, August 2013 – May 2014

**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 – 2012

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

## **SELECTION OF POSTER AND PAPER PRESENTATIONS**

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**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 CVID 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 CVID. 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**

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**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.** (*in review*). What were you thinking? A neural signature associated with adolescent reasoning.

Baird, A. A., & **Roellke, E. V.** (*manuscript in preparation*). Differential insular activation in response to peer and adult faces: Evidence for selective attention during adolescence.