

# Hannah J. Acheson-Field

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## Education:

**Pardee RAND Graduate School**, Ph.D. Candidate in Policy Analysis **2018 – 2022 (expected)**

**Pardee RAND Graduate School**, M.S. in Policy Analysis **2018 - 2020**

**Brown University**, Sc.B. with Honors in Computational Biology **2011 - 2015**  
- Thesis: “Reconstructing Clonal Trees from Multi-Sample Sequencing Data”

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## Research and Professional Experience:

**RAND Corporation**, Assistant Policy Researcher Santa Monica, CA | September 2018-present

- Performed quantitative and qualitative research. Projects and responsibilities include:
- Client: U.S. Department of Defense
  - o Literature review and interview data collection effort for project assessing education requirements for Joint Professional Military Education
  - o Compensation analysis for private and public STEM workers for a congressionally mandated study
  - o Compensation analysis for DoD civilian and private sector workers in high-demand DoD occupations
- Client: U.S. Air Force
  - o Performed a literature review and stakeholder discussions for a study identifying attributes for servicemembers likely to succeed in a Joint military environment
  - o Analysis of proficiency levels for the Aircrew Flight Equipment occupation
  - o Data cleaning for project team that is building an early warning prediction system for retention patterns
- Client: U.S. Army
  - o Economic modeling to predict the recruiting environment for the U.S. Army
- Client: U.S. Coast Guard
  - o Assisted in focus group discussions and qualitative analysis for a study recruitment/retention study to increase demographic diversity in the U.S. Coast Guard (client: U.S. Coast Guard)
- Client: National Science Foundation
  - o Data cleaning, ran hazard models, and trajectory models for project studying disparities among mid-career STEM Ph.D. women
- Client: The New Teacher Project
  - o Conducted and analyzed interviews for a school principal preparation program evaluation

**IDA Science and Technology Policy Institute**, Policy Fellow Washington, DC | August 2016-September 2018

- Program evaluation for a DoD STEM scholarship program. Activities include:
  - o Led effort to compare recipients with counterparts using DoD personnel dataset (1.3mn individuals)
  - o Designed and analyzed surveys and interviews sent to over 2,000 individuals
- Portfolio analysis for the National Science Foundation (NSF) Division of Education and Human Resources
  - o Analyzed and coded nearly 2,000 NSF awards that aim to broaden participation in STEM and performed network analysis and visualization to observe patterns in location and size

**Ernst and Young (EY) Dubai**, Analyst Dubai, UAE | August 2015-August 2016

- Worked in management and strategy consulting on projects in government, retail, and technology

**Raphael Lab**, Research Assistant, Dept. of Computer Science Providence, RI | June 2014 - June 2015

- Analyzed and created algorithms to reconstruct mutational history in multiply sampled tumors
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## Publications:

Andrew, Megan, Timothy Marler, Jesse Lastunen, Hannah Acheson-Field, and Steven W. Popper, An Analysis of Education and Training Programs in Advanced Manufacturing Using Robotics, Advanced Robotics for Manufacturing Institute, Pittsburgh, Pa., RR-4244-ARMIP, 2020.

Datta, Namita, Louay Constant, Natanee Thawesaengskulthai, and Hannah Acheson-Field. "Addressing Employment Obstacles for Young Syrian Refugee Women." Jobs Note: No. 12. Washington, DC: World Bank, 2020.

Master, Benjamin K., Elizabeth D. Steiner, Christopher Joseph Doss, and Hannah Acheson-Field, Pathways to Instructional Leadership: Implementation and Outcomes from a Job-Embedded School Leader Training Program, Santa Monica, Calif.: RAND Corporation, RR-A255-1, 2020.

Knapp, David, Michael Vasseur, Hannah Acheson-Field, Jonathan Welch, and Lisa Harrington. *General and flag officer costs: annual cost estimates for general and flag officers and supporting personnel*. Santa Monica, CA: RAND Corporation, RR-4286-OSD, 2020.

Balakrishnan, Asha, Hannah Acheson-Field, Reina S. Buenconsejo, Claire Summers, Sol Vitkin, and James Belanich. *Outcome Evaluation Report for the Science, Mathematics & Research for Transformation (SMART) Scholarship Program*. Alexandria, VA: Institute for Defense Analyses, 2018.

Balakrishnan, Asha, Reina S. Buenconsejo, Hannah Acheson-Field, Justin Mary, Claire Summers, Vanessa I. Pena, and Belanich, James. *Process Evaluation Report for the Science, Mathematics & Research for Transformation (SMART) Scholarship Program*. Alexandria, VA: Institute for Defense Analyses, 2018.

Pena, Vanessa I., Hannah Acheson-Field, Reina S. Buenconsejo and Claire Summers. *Proceedings to the 2nd Scholarship for Service (SFS) Program Workshop*. Alexandria, VA: Institute for Defense Analyses, 2018.

Crane, Keith W., Lance G. Joneckis, Hannah Acheson-Field, Ian D. Boyd, Benjamin A. Corbin, Xueying Han, and Robert N. Rozansky. *Assessment of the Future Economic Impact of Quantum Information Science*. Washington, DC: IDA Science and Technology Policy Institute, 2018.

El-Kebir, Mohammed, Layla Oesper, Hannah Acheson-Field, and Benjamin J. Raphael. "Reconstruction of Clonal Trees and Tumor Composition from Multi-Sample Sequencing Data." *Bioinformatics* 31, no. 12 (2015): i62-i70.

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### **Conference Presentations:**

Western Economic Association Meetings, Virtual, 2020  
Joint Statistics Meetings, Vancouver, 2018  
American Evaluation Association, Washington, DC, 2017  
Women in Computing, Orlando, FL, 2017

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### **Awards and Honors:**

RAND Spotlight Award, 2020  
RAND Center for Causal Inference Student Fellowship, 2019 - 2020  
NSF Graduate Research Fellowship (GRFP) Honorable Mention, 2020

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### **Service and Leadership:**

Pardee RAND Graduate School, on the job training broker and mentor 2020 - present  
Pardee RAND Graduate School, peer mentor 2019 - 2020

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### **Skills, Interests, and Other Information:**

**Technical Experience:** Advanced in R, Stata, Python

**Familiar** with Excel, NVivo, Visio, SPSS, Ruby, JavaScript, and HTML

**Research Skills:** Bibliometric Analysis, Expert Elicitation, Interviewing, Literature Reviews, Survey Design

*Updated August 2020*