

# Kyle Haak

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## PhD Candidate at Pardee RAND Graduate School United States Air Force Academy (USAFA)

### Honors and Awards:

- “Cadet of the Year” – Selected by the United States Air Force as the most outstanding cadet amongst all commissioning resources (16,000 people) over the 2017-2018 academic year
- Three-time Academic All-American – NCAA Division I hockey. Awarded for excellence in the classroom and on the ice; selected from 1800 Division I hockey players (2017, 2018, and 2019)
- Stamps Foundation Leader-Scholar: Awarded \$22,000 to study “Einstein Energy and Desalination” (2017)
- Distinguished Graduate – Awarded to graduates in the top 10% of military, academic, and physical standing
- Objectively graduated in the top 1% in the 2019 USAFA class for academics, military, athletic merit

### Academic Experiences:

- Major: Physics      Minor: Nuclear Weapons and Strategy
- First author of, “Nuclear Effects on Materials” (Classified)
  - Progressed research at the Air Force Institute of Technology. Resulted in the classification of all related research to the Secret level: Critical Nuclear Weapons Design and Information
  - Presented results at the 2018 Hardened Electronics and Radiation Technology (HEART) conference
- Stamps Leader-Scholar Research “Einstein Energy and Desalination” (2017-2019)
  - Investigated the integration of nuclear power and desalination to alleviate energy, water, and agricultural needs of an exponentially growing population
- Independent Project: “Wizards in Blue” (Spring 2018)
  - Assessed the feasibility of implementing a small modular reactor (SMR) at USAFA
- Consultant Apprentice for Fluence Corporation in Caesarea, Israel (Summer 2018)
  - Provided data analysis and target market analysis for the Seawater Desalination Nirobox™

### Leadership Positions:

- USAFA Cadet Squadron 31 Commander (May 2018 - Present)
  - Highest ranking cadet in squadron; selected to organize, equip, and motivate 110 cadets to achieve military, academic, and athletic milestones by developing and implementing strategies for success; primary liaison between cadet squadron and other USAFA levels of leadership
- Squadron Academic Non-Commissioned Officer (Fall 2017)
  - Oversaw 107 cadets academic progress and academic probations
- Basic Cadet Training Element Leader (Summer 2017)
  - Responsible for the military and physical development of 31 basic cadets
- Squadron Personal Ethics and Education Representative (PEER) (2016-2017)
  - Trained in one-on-one counseling to assist 107 cadets in the squadron with mental health and stress

### Technical Skills:

- Quantitative Analysis
  - Experienced in MATLAB and Mathematica to analyze data sets and data trends
- Research Techniques
  - Scientific method and literature review of technical subjects
- Microsoft Office: Well versed in Microsoft Word, PowerPoint, and Excel

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### Contact Information:

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