## **Andrew Cooper**

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250 Dr	rillfield Drive, Blacksburg, VA, 24061
<u>EDUCATION</u>	0.4.1
Virginia Iech, Blacksburg, VA	October 2025
• GPA: 3.9 • Delevent Commence In Device thill to and New Linearity Constitution Measure Theorem Theo	
• Relevant Coursework: Predictability and Non-Linearity, Spatial Statistics, Measure Theo	ory
PhD in Statistical Science	M 2020
Duke University, Durnam, NC Master's in Statistical Science	May 2020
Master's in Statistical Science	
<ul> <li>UFA: 5.82</li> <li>Balayant Coursequerly Predictive Medaling Statistical Programming in P. Decision The</li> </ul>	any Statistical Computation in
<ul> <li>Relevant Coursework. Fredictive Modeling, Statistical Programming in R, Decision The Bythen Machine Learning, Deep Learning, Lich Dimensional Data Analysis, Bool Anal</li> </ul>	lucia Computer Vision
Python, Machine Learning, Deep Learning, High Dimensional Data Analysis, Real Anal	Tysis, Computer vision
<b>Duke University</b> , Durnam, NC Dashalar of Saianaa in Statistical Saianaa, Dashalar of Saianaa in Commuter Saianaa	May 2018
Bachelor of Science in Statistical Science, Bachelor of Science in Computer Science	Duch shility Classical and Devesion
• Relevant Coursework: Modeling in Economic and Social Sciences, Regression Analysis Inference, Social Networks, Discrete Math, Computer Architecture, Operating Systems,	Algorithms, Databases
WORK AND LEADERSHIP EXPERIENCE	
Los Alamos National Laboratories, Los Alamos, New Mexico	Summer 2024-Present
Computational and Computer Sciences division	
• Conducted experiments exploring Radio Frequency Identification (RFID) beha	vior in lab environments.
• Developed novel approach to RFID tag localization for the purpose of expeditin	ng lab operations.
• Implemented software for general-purpose angular modeling (currently submitt	ted for public release).
NASA Langley Research Center, Hampton, Virginia	Summer 2023
Dynamic Systems and Control, Intelligent Flight Systems division	
• Developed methods for finding robust optimal designs with large-scale simulation	ion experiments.
• Applied methods to aeroelastic wing simulator for finding robust optimal wing	designs.
• Submitted paper proposal of work to AIAA Aviation Forum.	
Aerospace Corporation, El Segundo, California	Summer - Spring 2022
Reliability and Statistics, Systems Engineering division	
• Estimated reliability and predicted expected lifetimes of military and commerci	ial satellites.
• Developed tools for fitting and quantifying uncertainty in neural network mode	els.
• Collaborated with engineers on interdepartmental projects for assessing mission	n-related risks.
Mu Sigma Rho, Blacksburg, Virginia	Fall 2023 - Spring 2025
• Vice president of Virginia Tech chapter	
• Organized events for graduate students in the Statistics department.	
• Led review sessions for first-year graduate students to prepare them for departn	nent qualifying exams.
• Invited and arranged members of the statistics community to visit and speak at	the department.
PUBLICATIONS AND AWARDS	
Cooper, Andrew, Annie S. Booth, Robert B. Gramacy. 2025. "Modernizing Full Posteric	or Inference for Surrogate Modeling
of Categorical-Output Simulation Experiments." Preprint.	

- Booth, Annie S., Andrew Cooper, Robert B. Gramacy. 2023. "Non-Stationary Gaussian Process Surrogates." Preprint.
- Booth, Annie S., Andrew Cooper, Robert B. Gramacy. 2023. "<u>Vecchia-Approximated Deep Gaussian Processes for Computer Experiments</u>." Journal of Computational and Graphical Statistics 32 (3): 824–37.
- Jean Gibbon's STAR Award, Virginia Tech Department of Statistics, 2023

## **SKILLS AND INTERESTS**

## **Computer Languages**

- R, Python, SAS, MATLAB, STATA, and JMP statistical software programs, used for both class projects and research.
- Java, C, C++, Javascript, and PHP computer programming languages.
- Languages
  - Spanish (moderate proficiency)