STEVEN DALTON BARNETT

CONTACT	Department of Statist	ics	E-mail:	sdbarnett@vt.edu	
INFO	Virginia Polytechnic	Institute & State University	Cell:	(801) 669-2566	
	404 Hutcheson Hall, 2	250 Drillfiled Dr	Homepage:	www.stevendbarnett.github.io	
	Blacksburg, VA 2407	3, USA			
RESEARCH	Bayesian statistics, computer experiments, surrogate modeling, computer model calibration, Gaussian pro-				
INTERESTS	cess regression, and statistical computing. Application areas include engineering, space science, and envi-				
	ronmental issues.				
EDUCATION	VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY				
	Ph.D. Statistics, expected May 2025, advised by Robert B. Gramacy				
	M.S. Statistics, May 2	2022, 3.9 GPA			
	DRICHAM VOUNC UNIVERSITY				
	B S Computer Science April 2016 3 64 GPA				
	Dist computer science	<i>co</i> , ripin 2010, 5.01 Offi			
PEER-REVIEWED	D McAvov T I Foley I Barnett S. D. Mays R Dechaine A & Salom S M (2024) Laboratory Asses				
PAPERS	ment of Predation and Fecundity of <i>Laricobius</i> Species (Coleoptera: Derodontidae). Predators of Hemlock				
	Woolly Adelgid (To appear in Biocontrol Science & Technology).				
	Bukvic, A. & Barnett, S. (2023). Drivers of flood-induced relocation among coastal urban residents: Insight				
	trom the US east coast. Journal of Environmental Management, 325(A), 116429.				
	https://doi.org/10.101	0/J.Jenvinan.2022.110429			
PAPERS IN	Barnett S D Beesley I I Booth A S Gramacy R B Osthus D (2024) Monotonic warnings for				
REVIEW	additive and deep Gaussian processes. https://arxiv.org/abs/2408.01540				
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TALKS &	<i>Key:</i> $\mathbf{S} \equiv$ Seminar: $\mathbf{IT} \equiv$ Invited Talk: $\mathbf{CT} \equiv$ Contributed Talk: $\mathbf{P} \equiv$ Poster				
POSTERS	Computer model calibration for large-scale spatially-distributed counts				
	IT Oct 2024	Advances in Interdiscipl	nary Statistics	and Combinatorics, Greensboro, NC	
	CT Aug 2024	Joint Statistical Meeting	s, Portland, OR		
	CT June 2024	Statistics in Quality, Ind	ustry, and Tech	inology, Waterloo, CA	
	P Feb 2024	SIAM Conference on Un	certainty Quai	ntification, Trieste, IT	
	S Aug 2023	Statistical Sciences Grou	p, Los Alamos	National Lab, Los Alamos, NM	
	Deep Gaussian process modeling of Poisson data				
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- P May 2024 Design and Analysis of Experiments Conference, Blacksburg, VA
- P Oct 2023 Virginia Tech Corporate Partners, Blacksburg, VA
- P May 2023 ASA/IMS Spring Research Conference, Banff, CA

	Statistical collaborations & consulting				
	P Aug 2023 Joint Statistical Meetings, Toronto, CA				
	P Feb 2023 Conference on Statistical Practice, San Francisco, CA				
	P Oct 2022 Virginia Tech Corporate Partners, Blacksburg, VA				
HONORS & AWARDS	Student Travel Award, Joint Research Conference on Statistics in Quality, Industry, and Technology (2024) Virginia Tech Gibbons Star Award for Combined Outstanding Research and Service (2023) Virginia Tech Klaus Hinkelmann Award for Outstanding Departmental Service (2023) Student Travel Scholarship, AMS/IMS Spring Research Conference (2023) Virginia Tech John Bartko Ph.D. '62 Prize in Statistics for Outstanding Statistical Collaboration and Com- munication (2022)				
TEACHING EXPERIENCE	 Instructor of Record STAT 4714 - Statistics & Probability for Electrical Engineers, VIRGINIA TECH (Fall 2024) 				
	Teaching Assistant				
	• STAT 2004 - Introductory Statistics, VIRGINIA TECH (Fall 2022)				
	 STAT 5204G - Experimental Design: Concepts and Applications, VIRGINIA TECH (Fall 2021) STAT 3654 - Intro to Data Analytics and Visualization, VIRGINIA TECH (Spring 2021) STAT 4664 - Computational Intensive Stochastic Modeling, VIRGINIA TECH (Spring 2021) STAT 4654 - Intermediate Data Analytics and Machine Learning, VIRGINIA TECH (Fall 2020) CS 465 - Computer Security, BRIGHAM YOUNG UNIVERSITY (Winter 2016) CS 312 - Algorithm Design & Analysis, BRIGHAM YOUNG UNIVERSITY (Fall 2015) 				
PROFESSIONAL EXPERIENCE	QUALTRICS, INC				
	Software Engineer II. March 2020 - July 2020				
	COVID Engineering				
	- Designed and implemented system to track COVID-19 viral tests and notify patients of results				
	- Integrated notification framework with labs throughout the United States to enable batch testing				
	Software Engineer I, July 2016 - March 2020				
	CLIENT DATA AUTOMATIONS PLATFORM				
	- Designed and built framework for users to schedule repeated automations of bulk data exchange				
	- Developed feature to generate survey response exports and deliver them to customer data stores				
	- Built automations integrated with Amazon Simple Workflow Service, DynamoDB, and Nomad				
	Engineering Services				
	- Built real-time dashboards for managers to complete 360 surveys and view results				
	 Automated the distribution of over 100,000 daily survey invitations to customer contact lists Scoped, designed, and implemented custom solutions for several Fortune 500 companies 				
PRE- PROFESSIONAL EXPERIENCE	LOS ALAMOS NATIONAL LAB STATISICAL SCIENCES GROUP: Graduate research intern. Developed novel Gaussian process model calibration and surrogate modeling methods for non-continuous, large-scale satellite and computer model data; 2023-present				
	VIRGINIA TECH STATISTICAL APPLICATIONS AND INNOVATIONS GROUP: Lead collaborator. Provided statistical consulting and education to graduate students, faculty, and working professionals; 2021-2023				
	NCAR EARLY CAREER FACULTY INNOVATOR PROGRAM: Graduate research assistant. Conducted survey				

data analysis to understand attitudes on permanent relocation for coastal residents; Summer 2021-2022

SERVICE	ASQ, Chemical and Process Industries Division, Webinar/Communications Chair; 2023-present		
	Mu Sigma Rho, President of Virginia Tech Chapter; 2023-present		
	Mu Sigma Rho, Treasurer of Virginia Tech Chapter; 2022-2023		
	Virginia Tech Data Science Camp, Organizer and Facilitator; Summer 2022		
	Virginia Tech Corporate Partners Committee; 2021-present		
PROFESSIONAL MEMBERSHIP	American Society for Quality (ASQ), Chemical and Process Industries Division American Statistical Association (ASA), Section on Physical and Engineering Sciences International Society for Bayesian Analysis (ISBA) Society for Industrial and Applied Mathematics (SIAM) Mu Sigma Rho National Honor Society		