

Prateek Jaiswal

CONTACT INFORMATION	Young Hall (1023) Mitchell E. Daniels Jr. School of Business Purdue University West Lafayette, IN 47906 USA	Phone: +1 (765) 409-5910 E-mail: jaiswalp@purdue.edu
ACADEMIC POSITIONS	Clinical Assistant Professor <i>Department of Quantitative Methods, Daniels School of Business, Purdue University, West Lafayette</i>	August 2024 - present
	Postdoctoral Research Associate <i>Department of Statistics, Texas A&M University, College Station</i>	September 2021 - August 2024
EDUCATION	Purdue University , West Lafayette, Indiana, USA	
	Ph.D. in Industrial Engineering <i>Dissertation Topic:</i> “Variational Inference for Data-driven Stochastic Programming” <i>Committee:</i> Dr. Harsha Honnappa (Chair), Dr. Vinayak A. Rao, Dr. Raghu Pasupathy, Dr. Gesualdo Scutari, and Dr. J. George Shanthikumar	August 2021
	Indian Institute of Technology , Patna, India	
	B. Tech. in Mechanical Engineering	May 2012
HONORS AND AWARDS	Top Reviewer Award at NeurIPS 2025 Finalist (top 4) at INFORMS 2022 Data Mining Best Paper Competition (General Track) Joe Newton Best Poster Award at 2022 Conference on Advances in Data Science: Theory, Methods and Computation Sustainable Horizons Institute grant to attend the SIAM CSE21 conference and Broader Engagement (BE) program. PGSG Travel grant to attend INFORMS 2020 and NeurIPS 2020.	
GRANTS	(Awarded) 2025 DSB Community in Curriculum Award (PI, \$3000) (Pending) <i>AI Persona-Driven Analytics Case Studies for Semiconductor Workforce Development</i> , IUSE- Engaged Student Learning: Level I, National Science Foundation (NSF) (PI, \$400,000)	
TEACHING EXPERIENCE	<i>Instructor, Mitchell E. Daniels Jr. School of Business, Purdue University, West Lafayette, IN</i>	
	MGMT306- Management Science MGMT472- Advanced Spreadsheet Modeling and Simulation	F24,S25,F25 F24,S25,F25
	<i>Teaching Assistant, School of Industrial Engineering, Purdue University, West Lafayette</i>	
	IE343-Engineering Economics IE533-Industrial Applications of Statistics IE336-Operations Research-Stochastic Models IE230-Probability and Statistics in Engineering	Fall 2016 Spring 2017 Fall 2020 Spring 2021

ACADEMIC SERVICE Academic Service Roles

Academic (co)-Director of BS BAIM Program
Faculty Advisor, BAIM Association

August 2025 - present
August 2025 - present

Academic Committees

Purdue University, West Lafayette, IN

Clinical Assistant/Associate Professors Search Committee Member
University Sustainability Committee

2024/2025
2025/2026

Academic Conference Session Chair

International and Indian Statistical Association (IISA)
Session on: Approximate algorithms for complex Bayesian problems

June 2025

Academic Reviewer*Journals*

Journal of Machine Learning Research (JMLR)
Journal of American Statistical Association (JASA)
IISE Transactions

(manuscripts reviewed)
(2)
(2)
(1)

Conferences

International Conference on Machine Learning (ICML) (5)
Conference on Neural Information Processing Systems (NeurIPS) (11)
International Conference on Artificial Intelligence and Statistics (AISTATS) (4)
Uncertainty in Artificial Intelligence (UAI) (1)
AAAI Conference on Artificial Intelligence (AAAI) (5)

Member

Institute for Operations Research and the Management Sciences (INFORMS)

Production and Operations Management Society (POMS)

American Statistical Association (ASA)

International and Indian Statistical Association (IISA)

Training & Placement Cell, IIT Patna

Student Head and Founder

Aug 2010 - May 2012

**SCHOLARSHIP OF
TEACHING &
LEARNING
PUBLICATIONS**

Jaiswal A., Thomas P.J., Vhaduri S., Jaiswal P., Rodenbeck S. [Enhancing Teamwork in Project-Based Learning: Challenges, Reflections, and Strategies for Improvement](#). *2025 IEEE Frontiers in Education Conference (FIE)* - Full Paper. Forthcoming.

Jaiswal A., Thomas P.J., Vhaduri S., Jaiswal P., Rodenbeck S. [Investigating the Role of the Instructional Team in Enhancing Student Teamwork Experiences in an Introductory Cybersecurity Course](#). *2025 IEEE Frontiers in Education Conference (FIE)* - Full Paper. Forthcoming.

**JOURNAL
PUBLICATIONS**

Jaiswal, P. and Larson, J. “Multistart Algorithm for Identifying all Optima of a Nonconvex Stochastic Oracle”. *Optimization Letters* 18, 1335–1360 (2024)(OL)

Jaiswal, P., Honnappa, H., and Rao, V.A. “Bayesian Joint Chance Constrained Optimization: Approximations and Statistical Consistency”, *SIAM Journal on Optimization*, Vol. 33, No. 3, pp. 1968–1995, 2023 (SIOPT)

(Shorter version) *Proceedings of The 2nd Symposium on Advances in Approximate Bayesian Infer-*

ence, *MLR* 118:1-12, 2020.

Jaiswal, P., Rao, V.A.; and Honnappa, H. “Asymptotic Consistency of α -Renyi-Approximate Posteriors”, *Journal of Machine Learning Research*, (156):1- 42, 2020. (**JMLR**)

Jaiswal, P., Honnappa, H., and Rao, V.A. “Asymptotic Consistency of Loss-calibrated Variational Bayes”, *Stat* 9, no. 1 (2020): e258. (**Stat**)

CONFERENCE
PUBLICATIONS

Jaiswal, P., Honnappa, H., and Rao, V.A. “On the Statistical Consistency of Risk-Sensitive Bayesian Decision-Making”, *Accepted at the 37th Conference on Neural Information Processing Systems, 2023*. (**NeurIPS**)

Jaiswal, P., and Honnappa, H. ‘Statistical Inference for Approximate Bayesian Optimal Design’. In *Proceedings of the 2020 Winter Simulation Conference, Piscataway, NJ, 2020. IEEE, Inc.* (**WSC**)

Wang R., **Jaiswal, P.**, and Honnappa, H. ‘Estimating Stochastic Poisson Intensities Using Deep Latent Models’. In *Proceedings of the 2020 Winter Simulation Conference, Piscataway, NJ, 2020. IEEE, Inc.* (**WSC**)

Jaiswal, P., Honnappa, H., and Pasupathy, R. ‘Optimal Allocations for Sample Average Approximation . In *Proceedings of the 2018 Winter Simulation Conference, Piscataway, NJ, 2018. IEEE, Inc.* (**WSC**)

INVITED TALKS

Jaiswal, P. (Session chair), Generalizing Regret Bounds for Thompson Sampling via Minimax-Optimal α -Posterior Concentration 2025 IISA Conference, Nebraska, Lincoln, June 2025

Jaiswal, P., “Bayesian methodologies for data-driven decision-making”,

Department of Statistics, Indiana University, Bloomington, Dec 2023

Industrial & Systems Engineering Program, University of Cincinnati, Dec 2023

Department of Industrial and Systems Engineering, University of Tennessee, Knoxville, April 2024

Jaiswal, P., Honnappa, H., and Rao, V.A. “Variational Bayesian method for Stochastically Constrained System Design Problem”, *The 13th Young European Queueing Theorists (YEQT) workshops, EURANDOM, TU Eindhoven, The Netherlands - Oct 2019.*

Jaiswal, P., Honnappa, H., and Rao, V.A. “Variational Bayes for Data-driven Newsvendor Problem”, *Conference on Data Science for Business and Economics, Purdue University, West Lafayette, IN, USA - May 2018.*

CONFERENCES &
WORKSHOPS
PRESENTATIONS

Jaiswal, P., Pati, D.; Bhattacharya, A.; and Mallick, B.K. “Generalized Regret Analysis of Thompson Sampling using Fractional Posteriors” - *Conference on Advances in Data Science: Theory, Methods and Computation - Oct 2022.*

Jaiswal, P., Pati, D.; Bhattacharya, A.; and Mallick, B.K. “Generalized Regret Analysis of Thompson Sampling using Fractional Posteriors” - *INFORMS Annual Meeting - Oct 2022.*

Jaiswal, P., Pati, D.; Bhattacharya, A.; and Mallick, B.K. “Generalized Regret Analysis of Thompson Sampling using Fractional Posteriors” - *TTIC Summer Workshop: New Models in Online Decision Making for Real-World Applications - July 2022.*

Jaiswal, P., Honnappa, H. “Statistical Inference for Approximate Bayesian Optimal Design”, *Winter Simulation Conference (Virtual)- Dec 2020.*

Jaiswal, P., Honnappa, H. "Variational Inference for Bayes Optimal Design", *INFORMS Annual Meeting (Virtual) - Nov 2020*.

Jaiswal, P., Honnappa, H., and Rao, V.A. "Variational Inference for Risk-Sensitive Decision-Making", *NeurIPS Workshop on Safety and Robustness in Decision Making - Dec 2019*.

Jaiswal, P., Honnappa, H., and Rao, V.A. "Variational Bayesian method for Stochastically Constrained System Design Problem", *INFORMS Annual Meeting - Oct 2019*.

EXPERIENCE

Purdue University, West Lafayette, IN

Graduate Research Assistant, School of Industrial Engineering

May 2017 - May 2020

PI: Dr. Harsha Honnappa

Co-advisors: Dr. Vinayak A. Rao and Dr. Raghu Pasupathy

Argonne National Laboratory, Lemont, IL

Givens Associate

May 2020 - Aug 2020

PI: Dr. Mohan Krishnamoorthy

Givens Associate

May 2019 - Aug 2019

PI: Dr. Jeffrey M. Larson

Bharat Petroleum Corporation Ltd. (BPCL), India

Assistant Manager, Engineering & Projects

Jul 2012 - Jul 2016

University of Auckland, New Zealand

Research Assistant, Centre for Advanced Composites Manufacturing

May 2011 - Jul 2011

PI: Dr. Debes Bhattacharyya