

Education

2021– **D.Phil. in Statistics**, *University of Oxford*, Oxford, UK

- *Topic* : Robust Machine Learning: A Predictive and Generative Perspective
- *Supervisors* : Prof. Yee Whye Teh, Prof. Arnaud Doucet, Prof. George Deligiannidis, Prof. Tom Rainforth
- *Funding* : Clarendon Fund Scholarship, University of Oxford (only 1 awardee from the Department of Statistics)
- *College* : St. John's College

2014–18 **B.Sc. in Computer Science with Honors – Turing Scholars Honors & B.Sc. in Mathematics with Honors**, *University of Texas at Austin*, Austin, TX, USA, *GPA: 3.89/4.00*

- *Certificate in Applied Statistical Modeling*
- *Minor in Economics*
- *Honors Thesis* : Training Ising Models on Images using Sparsitron (Supervisor: Prof. Adam Klivans)
- *Research Programs* : Freshman Research Initiative, College of Natural Sciences
Directed Reading Program, Department of Mathematics

Work Experience

2025 **Researcher Intern**, *Microsoft Research*, Cambridge, UK

- *Preprint* : E-Scores for (In)Correctness Assessment of Generative Model Outputs

2023–24 **Machine Learning Intern**, *Boson AI USA Inc.*, Santa Clara, CA, US

- *Publication* : L3Ms — Lagrange Large Language Models @ ICLR 2025

2018–21 **Applied Scientist II (2019-21) & I (2018-19)**, *Amazon Web Services, Inc.*, Pasadena, CA, USA

- *Publications* : Uniform Sampling over Episode Difficulty @ NeurIPS (Spotlight) 2021
A Baseline for Few-Shot Image Classification @ ICLR 2020
- *Patent* : Structured Document Analyzer
- *Products* : Amazon Rekognition Custom Labels [[web](#)]
Amazon Textract [[web](#)]

2017 **Software Development Engineer Intern**, *Amazon Web Services, Inc.*, Palo Alto, CA, USA

- *Publication* : Stochastic Activation Pruning for Robust Adversarial Defense @ ICLR 2018

2016 **Machine Learning Intern**, *CognitiveScale*, Austin, TX, USA

2015 **Software Technology Engineering Intern**, *Dell Technologies Inc.*, Austin, TX, USA

Publications

2025 **L3Ms — Lagrange Large Language Models** [[proc](#)][[arXiv](#)][[code](#)] **ICLR**
G. S. Dhillon, X. Shi, Y. W. Teh, A. Smola

2024 **On the Expected Size of Conformal Prediction Sets** [[proc](#)][[arXiv](#)][[code](#)] **AISTATS**
G. S. Dhillon, G. Deligiannidis, T. Rainforth

2021 **Uniform Sampling over Episode Difficulty** [[proc](#)][[arXiv](#)][[code](#)] **NeurIPS (Spotlight)**
S. M. R. Arnold*, G. S. Dhillon*, A. Ravichandran, S. Soatto (*Equal contribution)

2020 **A Baseline for Few-Shot Image Classification** [[proc](#)][[arXiv](#)][[code](#)] **ICLR**
G. S. Dhillon, P. Chaudhari, A. Ravichandran, S. Soatto

2018 **Stochastic Activation Pruning for Robust Adversarial Defense** [[proc](#)][[arXiv](#)][[code](#)] **ICLR**
G. S. Dhillon, K. Azizzadenesheli, Z. C. Lipton, J. Bernstein, J. Kossaifi, A. Khanna, A. Anandkumar

Preprints

2025 **E-Scores for (In)Correctness Assessment of Generative Model Outputs** [[arXiv](#)]
G. S. Dhillon, J. González, T. Pandeva, A. Curth

Theses

2018 **Training Ising Models on Images using Sparsitron** [[web](#)]
Undergraduate Honors Thesis
Supervisor: Prof. Adam Klivans, Co-Supervisor: Dr. Philipp Krähenbühl

Other Articles

2020 **Erratum Concerning the Obfuscated Gradients Attack on Stochastic Activation Pruning** [[arXiv](#)]
G. S. Dhillon*, N. Carlini* (*Equal contribution)

Patents

2020 **Structured Document Analyzer** [[pdf](#)][[text](#)] **US Patent 10839245**
G. S. Dhillon, V. Mahadevan, Y. Zhang, M. Wang, G. Payyavula, V. C. Nguyen, R. Bhotika, S. Soatto

Talks and Presentations

E-Scores for (In)Correctness Assessment of Generative Model Outputs
2025 Algorithmic Statistics Workshop, Doctoral Training Centre, University of Oxford [[web](#)]
On the Expected Size of Conformal Prediction Sets
2023 ELLIS Robust Machine Learning Workshop [[web](#)]
Uniform Sampling over Episode Difficulty
2022 Seminar on Continual Learning, Meta-Learning, Transfer Learning and Related Subjects, Google DeepMind
A Baseline for Few-Shot Image Classification
2021 Workshop on Computer Vision with Limited Labels, Amazon Computer Vision Conference
2019 Workshop on Meta-Learning, Conference on Neural Information Processing Systems (NeurIPS) [[web](#)] (*Spotlight*)
2019 Workshop on Computer Vision Services/Systems in Amazon, Amazon Machine Learning Conference
2019 Workshop on Data-Efficient Learning Techniques for Amazon Scale, Amazon Machine Learning Conference
Stochastic Activation Pruning for Robust Adversarial Defense
2017 Machine Deception Workshop, Conference on Neural Information Processing Systems (NeurIPS) [[web](#)]

Teaching

Module Teaching
2025 Conformal Prediction © Doctoral Training Centre, University of Oxford
Teaching Assistant
2022–23 Foundations of Statistical Inference (George Deligiannidis) © Department of Statistics, University of Oxford
2016 Matrices and Matrix Calculations (John Gilbert) © Department of Mathematics, University of Texas at Austin

Academic Services

Organizing Committee Member
2024 ELLIS Robust Large Language Models Workshop [[web](#)]
2024 ELLIS Robust Machine Learning Workshop [[web](#)]
2023 ELLIS Robust Machine Learning Workshop [[web](#)]
Reviewer
NeurIPS, ICML, ICLR, AISTATS, TMLR

Honors and Awards

2021– Clarendon Fund Scholarship, University of Oxford *(only 1 awardee from the Department of Statistics)*
2018 College Scholar, College of Natural Sciences, University of Texas at Austin *(only top 20% awardees)*
2017–18 Out-of-State Tuition Waiver, College of Natural Sciences, University of Texas at Austin *(only 5-7 awardees)*
2017–18 Thomas and Elizabeth Merner Scholarship, College of Natural Sciences, University of Texas at Austin
2017–18 Angus G. and Erna Pearson Endowed Scholarship, Department of Computer Science, University of Texas at Austin
2017 College Scholar, College of Natural Sciences, University of Texas at Austin *(only top 20% awardees)*
2016–17 Motorola Endowed Scholarship, Department of Computer Science, University of Texas at Austin
2015–16 Angus G. and Erna Pearson Endowed Scholarship, Department of Computer Science, University of Texas at Austin
2015 TIDES FRI Summer Research Fellowship, College of Natural Sciences, University of Texas at Austin
2014–15 Freshman Scholarship, College of Natural Sciences, University of Texas at Austin
2014–15 Schein Memorial Scholarship, Department of Computer Science, University of Texas at Austin