

SIDDHARTH BHATIA  
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## WORK EXPERIENCE

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### **TurboML**

Co-founder and CEO (2023 - Present)  
Building AI that is Continual, Adaptive, and Personalized.

## EDUCATION

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### **National University of Singapore**

Ph.D. Computer Science (2018 - 2022)  
Presidents Graduate Fellowship  
Thesis: Streaming Anomaly Detection

### **BITS Pilani**

M.E. Computer Science (2018)  
B.E. Computer Science (2016)  
M.Sc. Mathematics (2016)

## HONORS AND AWARDS

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1. Presidents Graduate Fellowship, Singapore (2018-2022)
2. Invited to ET Global Business Summit, 2025
3. Invited to Global Young Scientists Summit, 2022
4. Invited to Google Research Graduate Symposium, 2021
5. NUS Research Achievement Award, 2020, 2021, and 2022
6. Popular Choice Award, Microsoft Azure Hackathon, 2020
7. Young Researcher, ACM Heidelberg Laureate Forum, 2016
8. Registration/Travel Grants: KDD, WWW, AAAI, NeurIPS, MSR, SIGMOD, SOSP, ICDM, HPDC, POPL, ECOOP
9. KVPY Fellowship (2011-2016)
10. Indian National Olympiad in Informatics, 2008

## INTERNSHIPS

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### **Google Research (2021)**

Intern, Streaming Restless Multi-Armed Bandits

### **Amazon Web Services (2020)**

Intern, Semi-supervision in Anomaly Detection

### **Microsoft Research (2016)**

Intern, Code Switching

### **University of Cambridge (2015)**

Intern, Approximate Triangle Count in Large Scale Graphs

### **Indian Institute of Science (2014)**

Intern, Parallel Hashing for Approximate k-NN Search in GPU-CPU Hybrid

### **Indian Space Research Organisation (2013)**

Intern, 3D visualization

### **IIIT Delhi (2012)**

Intern, Mobile and Ubiquitous Computing

## PUBLICATIONS

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1. [Siddharth Bhatia](#), Bryan Hooi, Minji Yoon, Kijung Shin, Christos Faloutsos. “MIDAS: Microcluster-Based Detector of Anomalies in Edge Streams.” AAAI Conference on Artificial Intelligence (AAAI), 2020. (700+ stars on [GitHub](#))
2. [Siddharth Bhatia](#), Arjit Jain, Pan Li, Ritesh Kumar, Bryan Hooi. “MSTREAM: Fast Anomaly Detection in Multi-Aspect Streams.” The Web Conference (WWW), 2021 (Best Paper Candidate)
3. [Siddharth Bhatia](#)\*, Arjit Jain\*, Bryan Hooi [\* denotes equal contribution]. “ExGAN: Adversarial Generation of Extreme Samples.” AAAI Conference on Artificial Intelligence (AAAI), 2021.
4. [Siddharth Bhatia](#), Yiwei Wang, Bryan Hooi, Tanmoy Chakraborty. “GraphAnoGAN: Detecting Anomalous Snapshots from Attributed Graphs.” European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML-PKDD), 2021.
5. Koki Kawabata\*, [Siddharth Bhatia](#)\*, Rui Liu, Mohit Wadhwa, Bryan Hooi [\* denotes equal contribution]. “SSMF: Shifting Seasonal Matrix Factorization.” Conference on Neural Information Processing Systems (NeurIPS), 2021
6. [Siddharth Bhatia](#), Rui Liu, Bryan Hooi, Minji Yoon, Kijung Shin, Christos Faloutsos. “Real-Time Anomaly Detection in Edge Streams.” Transactions on Knowledge Discovery from Data (TKDD)
7. Yiwei Wang, Yujun Cai, Yuxuan Liang, Henghui Ding, Changhu Wang, [Siddharth Bhatia](#), Bryan Hooi. “Adaptive Data Augmentation on Temporal Graphs.” Conference on Neural Information Processing Systems (NeurIPS), 2021
8. Jiabao Zhang, Shenghua Liu, Wenting Hou, [Siddharth Bhatia](#), Huawei Shen, Wenjian Yu, Xueqi Cheng. “AUGSPICING: Synchronized Behavior Detection in Streaming Tensors.” AAAI Conference on Artificial Intelligence (AAAI), 2021
9. [Siddharth Bhatia](#), Arjit Jain, Shivin Srivastava, Kenji Kawaguchi, Bryan Hooi. “MemStream: Memory-Based Streaming Anomaly Detection.” The Web Conference (WWW), 2022
10. Xiaobing Sun, Wenjie Feng, Shenghua Liu, Yuyang Xie, [Siddharth Bhatia](#), Bryan Hooi, Wenhan Wang, Xueqi Cheng. “MonLAD: Money Laundering Agents Detection in Transaction Streams.” ACM International Conference on Web Search and Data Mining (WSDM), 2022
11. Ying Sun, Wenjun Wang, Nannan Wu, Chaochao Liu, [Siddharth Bhatia](#), Yang Yu, Wei Yu. “AAAN: Anomaly Alignment in Attributed Networks.” Knowledge-Based Systems, 2022
12. [Siddharth Bhatia](#), Mohit Wadhwa, Kenji Kawaguchi, Neil Shah, Philip S. Yu, Bryan Hooi. “Sketch-Based Anomaly Detection in Streaming Graphs.” SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2023
13. [Siddharth Bhatia](#), Kunal Lad, Rajiv Kumar. “Bend-optimal orthogonal drawings of triconnected plane graphs.” AKCE International Journal of Graphs and Combinatorics, 2018.
14. Yash Sinha, [Siddharth Bhatia](#), Virendra S Shekhawat, G S S Chalapati. “MPLS based Hybridization in SDN.” International Conference on Software Defined Systems, 2017.
15. [Siddharth Bhatia](#), Yash Sinha, Lavika Goel. “Lung Cancer Detection: A Deep Learning Approach.” Soft Computing for Problem Solving, 2017
16. [Siddharth Bhatia](#), Mohan Pavan Kumar Badarla. “Parallelization of Error Weighted Hashing for Approximate k-nearest neighbor search on GPUs.” IEEE International Conference on High Performance and Smart Computing, 2016.
17. Chandra Shekhar, Madhu Jain, [Siddharth Bhatia](#). “Fuzzy analysis of machine repair problem with switching failure and reboot.” Journal of Reliability and Statistical Studies Special Issue, 2014.

## POSTERS/WORKSHOPS

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1. Shivin Srivastava, [Siddharth Bhatia](#), Lingxiao Huang, Jun Heng Lim, Kenji Kawaguchi, Vaibhav Rajan. “Classification aware clustering for Risk Prediction and Subtyping in Clinical Data.” Workshop on Information Technologies and Systems (WITS), 2023
2. Jie Zhang, Nannan Wu, Wenjun Wang, Ying Sun, [Siddharth Bhatia](#). “Anomaly Alignment Across Multiple Attributed Networks.” KDD Workshop on Outlier Detection and Description (ODD), 2021.
3. [Siddharth Bhatia](#), Bryan Hooi, Minji Yoon, Kijung Shin, Christos Faloutsos. “MIDAS: Microcluster-Based Detector of Anomalies in Edge Streams.” KDD Workshop on Mining and Learning with Graphs (MLG), 2020.

4. [Siddharth Bhatia](#). Approximate Triangle Count and Clustering Coefficient. ACM Special Interest Group on Management of Data Conference (SIGMOD) Student Research Competition, 2018.
5. [Siddharth Bhatia](#), Yash Sinha, G S S Chalapati and Rajiv Kumar. “MPI aware routing using SDN.” ACM International Symposium on High Performance Distributed Computing (HPDC), 2017.
6. [Siddharth Bhatia](#). “SmallTable.” ACM International Symposium on High Performance Distributed Computing (HPDC), 2017.
7. Yash Sinha and [Siddharth Bhatia](#). “Control-data plane intelligence trade-off in SDN.” IEEE Symposium on Security and Privacy (S&P), 2017.

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## SERVICE

### Chair

- Organiser, 6<sup>th</sup> Outlier Detection and Description (ODD) Workshop, KDD 2021
- Publications Chair, 11<sup>th</sup> ACM Symposium on Cloud Computing (SOCC), 2020

### Senior Program Committee Member

- 30<sup>th</sup> International Joint Conference on Artificial Intelligence (IJCAI), 2021

### Program Committee Member

- 15<sup>th</sup> International Conference on Web Search and Data Mining (WSDM), 2022
- 10<sup>th</sup> International Conference on Learning Representations (ICLR), 2022
- 35<sup>th</sup> AAAI Conference on Artificial Intelligence (AAAI), 2021
- 35<sup>th</sup> Conference on Neural Information Processing Systems (NeurIPS), 2021
- ACM SIGKDD Workshop on Deployable Machine Learning for Security Defense (MLHat), 2021
- Workshop on Artificial Intelligence for Anomalies and Novelty, IJCAI, 2021
- NeurIPS Workshop on Fair AI in Finance, 2020
- ACM SIGKDD International Workshop on Mining and Learning with Graphs (MLG), 2020
- ACM SIGKDD Workshop on Machine Learning in Finance, 2020
- Workshop on Artificial Intelligence for Anomalies and Novelty, IJCAI, 2020

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## TALKS

[Alan Turing Institute](#)  
[Amazon](#)  
[Data+AI Summit](#)  
[Data Science Congress](#)  
[DataScience SG](#)  
[ET Global Business Summit](#)  
[Knowledge Graphs Meetup](#)  
[MIT](#)  
[New York University](#)  
[NUS Computing Research Week](#)  
[RSA Conference](#)  
[Security Weekly](#)

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## PRESS COVERAGE

[ACM TechNews](#)  
[Alhub:1, 2](#)  
[AI Trends](#)  
[Analytics India Magazine: 1 2](#)  
[Bloomberg](#)  
[Hacker News](#)  
[Hacker Noon](#)  
[insideBIGDATA](#)  
[KDnuggets:1, 2](#)  
[Lionbridge](#)  
[MarkTechPost](#)  
[MarTech](#)

Microsoft Azure  
Towards AI  
Towards Data Science  
Unite.AI

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#### TEACHING

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##### **National University of Singapore: Teaching Assistant**

- DSA5102: Foundations of Machine Learning (Fall 2020)
- TIC1001: Introduction to Computing and Programming I (Fall 2020)
- CS5228: Knowledge Discovery and Data Mining (Spring 2020)
- BT5151: Foundation in Data Analytics II (Spring 2020)
- TIC1002: Introduction to Computing and Programming II (Spring 2020)
- TIC2002: Introduction to Software Engineering (Fall 2019)
- TIC1001: Introduction to Computing and Programming I (Fall 2019)

##### **BITS Pilani: Teaching Assistant**

- CS F211: Data Structures and Algorithms
- CS F212: Database Systems
- CS F372: Operating Systems

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#### MENTORING / ADVISING

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- Arjit Jain, IIT Bombay
- Mohit Wadhwa, Google
- Rui Liu, National University of Singapore
- Ritesh Kumar, IIT Kanpur
- Rama Rohit Reddy, IIIT Hyderabad

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#### REFERENCES

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- **Bryan Hooi**, Asst. Professor, National University of Singapore
- **Sudipto Guha**, VP - AI/ML, Zscaler and Former Principal Scientist, Amazon
- **Ashish Gupta**, Senior Director, Google