

Curriculum Vitae – Dr. Salman Toor

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Professional Preparation

2020 Docent in Scientific Computing, Uppsala University
2015 Postdoc in Distributed Infrastructures, Helsinki Institute of Physics
2007 PhD. in Scientific Computing, Uppsala University
2005 M.Sc. in Computational Science, Uppsala University
2002 M.Sc in Software Engineering, SZABIST

Employments

2021 – ongoing Associate Professor, Uppsala University
2021 – 2023 Director Computational Science Masters Programme
2021 – 2023 Academic Director eSSence Graduate School
2021 – ongoing Academic Director Cybersecurity Graduate School, Uppsala University
2018 – 2021 Assistant Professor, Uppsala University
2015 – 2018 Technical Head of the Cloud Chapter, Swedish National Infrastructure for Computing (SNIC)
2021 – ongoing Co-founder and Chief Technology Officer, Scaleout Systems
2017 – 2020 Co-founder and Head of Infrastructure, Scaleout Systems

Student(s) Supervision

2023 – 2028 Principal Supervisor for Mr. Usama Zafar's doctoral thesis
2022 – 2027 Principal Supervisor for Mr. Zhenlu Sun's doctoral thesis
2022 – 2027 Associate Supervisor for Mr. Patrick Hennig's doctoral thesis
2022 – 2024 Principal Supervisor for Mr. Tianru Zhang's doctoral thesis
2017 – 2022 Mentor for Mr. Omar Javed's doctoral thesis
2016 – 2019 Associate Supervisor for Dr. Marco Capuccini's doctoral thesis
2017 – ongoing Supervised and Reviewed more than forty M.Sc. theses

PhD Thesis Opponent and Doctoral Committee Memberships

2025 Opponent for Mr. Sina Sheikholeslami's PhD defense at KTH
2024 Opponent for Mr. Sourasekhar Banerjee's PhD defense at Umea University
2024 Committee Member for Mr. Ali Dadras's PhD defense at Umea University
2024 Committee Member for Mr. Shenghui Li's PhD defense at Uppsala University
2023 Committee Member for Han Wang's PhD defense at KTH
2022 Committee Member for Mr. George Kalamatianos's PhD defense at Uppsala University
2021 Committee Member for Mr. Khalid Mahmood's PhD defense at Uppsala University

Research Grants

2025 – 2027 Mixture of Experts Models Tailored for Fleet Intelligence (PI). Funded by Vinnova

2025 – 2027 DREAM – Distributed, Robust and Efficient AI for Autonomous Vehicles (Co-PI). Funded by Vinnova

2025 – 2027 Continuous Active Federated Learning for Data Streams (Co-PI). Funded by Vinnova

2023 – 2025 Robust IoT Security: Intrusion Detection Leveraging Contributions from Multiple Systems (Co-PI). Funded by Vinnova

2022 – 2027 Data-driven Vulnerability Analysis for Critical Infrastructures (PI). Funded by eSSENCE Graduate School

2022 – 2023 Improving Livestock Health and Welfare Through Collaborative AI (Swedish PI). Funded by SASUF

2022 – 2028 Secure Federated Learning at Scale (PI). Funded by Cybersecurity Graduate School, Uppsala University

2021 – 2024 SustAnimal (Senior Scientist). Funded by Formas

2018 – 2023 GIGACow (Co-PI). Special call for research infrastructure, SLU

2018 – 2022 HASTE (Senior Scientist). Funded by SSF

2019 – 2021 Data, Information and Knowledge Exchange for Higher Education Development (Swedish PI). Funded by SASUF

2019 – 2020 A Platform for Privacy-Preserving Machine Learning Using the Ethereum Blockchain and Smart Contracts (PI). Funded by Vinnova

Scientific Impact

Toor has co-authored 40 peer-reviewed conference proceedings, published 15 journal articles, several popular science vlogs/blog posts, and 1 book chapter. Toor has also co-authored 20 technical reports and software manuals. He has also organized and been a member of the technical committees for several national and international conferences and workshops.

Industrial Impact

In 2017, Toor co-founded Scaleout Systems (<https://www.scaleoutsystems.com/>) with the aim of bringing cutting-edge research to industry stakeholders. Over the last five years, Scalout has successfully secured both research and industrial funding and also completed a pre-seed round. Scaleout was highlighted on the prestigious NyTeknik 33-list in 2021 as a top Swedish startup. Scaleout is creating value by offering a commercial SaaS platform for scalable federated learning used by major commercial and defense organizations.

Links

Google scholar: <https://scholar.google.com/citations?user=PIGIWyYAAAAJ&hl=en>

LinkedIn: <https://www.linkedin.com/in/salman-toor-1104b84/>