

Dr Srivas Chennu

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Personal Statement

I have a deep understanding of AI science, techniques and applications. Currently managing a team of AI scientists at Apple, I'm looking to maximise my learning opportunities in roles that combine cutting edge research to deliver impact. I have used my skills and experience on a wide range of applications, from exploring consciousness in patients to significantly increasing revenue within Apple's App Store. I have [published](#) throughout my career and co-authored nearly 100 publications in academic journals, cited nearly 4000 times with an h-index of 28 (as of April 2024).

Skills

- Project planning and delivery
- Team leadership and management
- Large-scale recommender systems
- Large language model applications
- Probabilistic machine learning
- Statistical and causal inference
- Signal processing and time series analysis
- Graph theory and network analysis

Experience

Apple *Senior Research Manager* 2023-present

Lead a team of scientists building ML-powered personalized experiences for Apple services. Have delivered projects to create and ship large-scale recommender systems powered by deep learning and reinforcement learning. Have applied LLMs to extract insights from textual data to power highly visible customer-facing features. Have deep knowledge of ML with big data, and on-device ML with privacy.

Apple *Research Manager* 2019-2023

Lead team building models for predicting and optimizing user engagement across Apple's services. Helped improve user acquisition and retention, producing measurable increase in revenue. Co-led adoption of interpretable reinforcement learning. Developed Bayesian inference framework powering App Store's [product page optimisation](#) feature for AB testing. Published papers at KDD and DSAA.

DataTiger (acquired by Apple) *Machine Learning Lead* 2018

Applied ensemble machine learning for predicting customer retention in online multiplayer games. Built unsupervised learning models for personalising timing of marketing communications.

Alan Turing Institute *Visiting Researcher* 2018

Developed machine learning models for automated diagnostics of brain states using EEG time series.

University of Kent *Assistant Professor, Team Leader* 2016-2019

Led health care AI research team of scientists. Developed [software](#) for measuring biomarkers of consciousness using time series modelling and network analysis, enabling improved bedside evaluation of patients. Secured independent [research funding](#). Published papers in [high-impact journals](#). Research featured in a BBC Panorama special [The Mind Reader: Unlocking My Voice](#).

University of Cambridge *Senior Research Associate* 2010-2016

Developed spectral coherence methods and causal models of EEG time series for predicting conscious states during anaesthesia and after severe brain injury. Research profiled in the [BBC](#), [New Scientist](#), [Scientific American](#), and [Wired](#). Gave public lectures at *Wellcome Collection* and *New Scientist Live*.

- Fraunhofer Institute** Graduate Research Assistant 2005
 Worked on an EU-funded project on QoS-aware broadband internet using resilient optical access networks.
- Hamburg University of Technology** Graduate Research Assistant 2005
 Developed convex optimisation and linear programming solutions for industrial applications. Published an algorithmic methodology for decentralization of real-time control systems.
- Oracle Corporation** Member of Technical Staff 2002-2004
 Worked as software engineer in the *Oracle Reports* team, a part of Oracle's *Internet Application Server* platform. Build internal QA tools in Java, C++ and shell scripts.

Education

- PhD in Computer Science** University of Kent, Canterbury, UK 2006-2009
 Thesis title: *The temporal spotlight of attention: computational and electrophysiological explorations* (approved with no corrections)
- MSc in Information and Communication Systems** Hamburg University of Technology Hamburg, Germany 2004-2006
 Overall ECTS grade: 1.3 (Very Good; Passed with Distinction)
- BEng in Computer Science and Engineering** Visveswaraiah Technological University Bangalore, India 1998-2002
 Overall percentage score - 81.46% (First Class with Distinction)

Selected Publications ([Google Scholar](#))

- Chennu, Maher, Pangerl et al.** 2023. [Rapid and Scalable Bayesian AB Testing](#). *10th IEEE Conference on Data Science and Advanced Analytics, DSAA 2023*.
- Chennu, Martin, Liyanagama & Mohr.** 2021. [Smooth Sequential Optimisation with Delayed Feedback](#). *Workshop on Bayesian Causal Inference in Real-World Interactive Systems, ACM SIGKDD*.
- Patlatzoglou, Wolff, Gosseries, Bonhomme, Laureys & **Chennu**. 2020. [Generalized Prediction of Unconsciousness during Propofol Anesthesia using 3D Convolutional Neural Networks](#). *The 42nd International Conference of the IEEE Engg. and Biology Society*.
- Chennu, Annen, Wannez, Thibaut et al.** 2017. [Brain networks predict metabolism, diagnosis and prognosis at the bedside in disorders of consciousness](#). *Brain*, 140(8), 2120-2132.
- Chennu, Finioia, Kamau, Allanson et al.** 2014. [Spectral signatures of reorganised brain networks in disorders of consciousness](#). *PLOS Computational Biology*, 10(10), e1003887