CV: Dr Sebastian Stein

Research

My research focuses on **mechanism design and incentive engineering in multi-agent systems**, and I am passionate about applying my work to societal challenges. To this end, I have worked extensively on electric vehicle charging, intelligent transportation, crowdsourcing, participatory sensing, cloud and edge computing. I have published 14 articles in top journals (including leading AI journals such as JAIR, AIJ, ACM TIST, ACM TOIT) and 50 contributions to top international venues (including leading AI conferences IJCAI, AAAI, AAMAS).

Education

2008	**PhD in Multi-Agent Systems, University of Southampton**
	- Title: Flexible Service Provisioning in Multi-Agent Systems
	- Supervisors: Prof Nick Jennings, Dr Terry Payne
	- Shortlisted for ECCAI Best Dissertation Award
	- Viva Date: 28th April 2008
2004	**MEng Computer Science (First Class Honours), University of Warwick**
	- Best Graduate Award
2000	**European Baccalaurate, European School Culham**

Posts

2018-	**Associate Professor, University of Southampton**
	- Working on mechanism design and incentives in multi-agent systems
	- Director of Programmes (undergraduate computer science)
	- Management group member of Centre for IoT and Pervasive Systems
	- Teaching Programming 2 (Advanced Java), Social Computing
2012-18	**Lecturer, University of Southampton**
	- Deputy Director of Faculty Graduate School
	- Member of Faculty Ethics Committee
	- Taught Software Engineering Group Project
2011-12	**Senior Research Fellow, University of Southampton**
	- Named researcher on ORCHID programme grant
	- Leader of Robocup Rescue Simulation team (won 2nd place in 2010)
2007-10	**Research Fellow, University of Southampton**
	- Researcher on ALADDIN programme grant and Hyperion project
	- Worked with Rolls-Royce, BT, General Dynamics and QinetiQ

Awards and Achievements

- Invited paper and talk at Best Sister Conference track of IJCAI 2017
- 6 other invited talks (including at Toyota R&D Labs and Dagstuhl)
- Best Innovative Applications Paper Award at AAMAS 2016
- Best Paper Nominee at AAMAS 2016
- Best Paper Nominee at HumTech 2016
- Best Student Paper Nominee at ECAI 2012
- Shortlisted (1 out of 4) for Best Dissertation Award in Artificial Intelligence by ECCAI

Grants

Total: Over **£5M** as PI/Co-I, including:

2021-25	PI on UKRI Turing AI Acceleration Fellowship	£1.16M
2020-21	PI on Distributed Analytics and Information Science ITA BPP20 grant	$280k
2019-20	Co-I on Alan Turing Institute project: Strategic influence in dynamic opinion formation: Theory and data	£80k
2018-23	Co-I on EPSRC platform grant: AutoTrust: Designing a Human-Centered Trusted, Secure, Intelligent and Usable Internet of Vehicles	£1.65M
2018-20	PI on Distributed Analytics and Information Science ITA BPP18 grant	$494k
2017-22	Co-I on EPSRC platform grant: Wearable and Autonomous Computing for Future Smart Cities	£1.43M
2017-19	Co-I on Newton Fund Institutional Links grant: ASSET	£150k
2016-18	PI on Distributed Analytics and Information Science ITA IPP16 grant	$393k

Consultancy Work

2019	**Connected Places Catapult**	
	Online course on AI for Connected and Autonomous Vehicles for IET Academy	
2019	**Dstl Progeny 7**	
	Human-machine teaming for submarine control rooms	
2014-20	**4 Contracts with Toyota Headquarters and R&D Labs. Inc.**	
	Mechanism design for on-demand mobility, electric vehicle charging and ridesharing.	
2014-15	**UK Intelligence Agency**	
	Software for detecting departures from routine in mobility patterns	
2011-13	**3 Contracts with BAE Systems**	
	AI and multi-agent systems applications for defence	

Professional Activities

- Local co-organiser of AAMAS 2021
- Member of organising committee of HAI 2018 (finance chair)
- Senior programme committee member of AAMAS 2018/2019/2021, AAAI 2019/2020/2021
- Member of organising committee of AAMAS 2017 (publicity chair)
- Organiser of AMEC 2010, AMEC 2011, TADA/AMEC 2012 and AMEC 2013 workshops
- Programme Committee Member for over 30 conferences and workshops
- Nominated for Best PC Member for AAMAS 2012
- Reviewer for journals including JAIR, ACM TIST, ACM TWEB and JAAMAS

PhD Students

- **Current**: Tin Leelavimolsilp, Fan Bi, Sukankana Chakraborty, Tesfay Gebrekidan, Thomas Phipps, Jack Dymond, Gregory Sewell, Alexander Masterman

- **Graduated**: Alexandros Zenonos (2017), Frederik Auffenberg (2017), Elliot Salisbury (2017), Jakob Kittley-Davies (2019), Nhat Truong (2020)

Publications

For a current list, please see https://www.ecs.soton.ac.uk/people/ss1y07#publications