Jeremias Knoblauch

■j.knoblauch@ucl.ac.uk | ★ jeremiasknoblauch.github.io/ | • JeremiasKnoblauch

Objective __

I am reconciling the assumptions underlying Bayesian analysis with the realities of Statistical Machine Learning. To this end, my research generalizes Bayesian uncertainty.

Academic positions _____

06/2022 - EPSRC Fellow & Assistant Professor/Lecturer

University College London

London, GBR

06/2025

06/2025

Appointment to full-time faculty

• Won a fellowship grant through EPSRC

bought out of teaching and administrative duties

 University College London

London, GBR

Senior Research Fellow

• Won my own funding/grant through the Biometrika Trust

Selected Fellowships & Grants _____

06/2022 - **EPSRC Fellowship**

Engineering and Physical Research Council

Slough, GBF

• Grant worth £325,660 to investigate Optimisation-centric Generalisations of Bayesian Inference

Bought out of teaching and administrative duties

10/2021 - 06/2021 Biometrika Post-doctoral Fellowship

Biometrika Trust

London, GBR

• Grant worth £122,000 to investigate Generalised Bayesian Inference

Yearly competitive award for a UK-based young career researcher

Facebook Research (Core Data Science)

Menlo, l

Maintenance \$37,000 p.a., travel expenses \$5,000 p.a., tuition up to \$68,150 p.a.; full award worth \$212,000

• First UK-based Facebook fellow

• Global award to 21 out of >1,000 applications based on academic excellence

09/16-09/21 OxWaSP PhD Fellowship

EPSRC

Swindon, GBR

• Covers tuition fees, maintenance £15,254 p.a., travel £1,000 p.a.; full award worth **£86.000**

Awarded to 10 of >500 applicants to fund their PhD within OxWaSP

09/2019 - 9/2020 **Visiting Researcher Fellowship**

The Alan Turing Institute

London, GBR

• Maintenance award for contributions to Data-Centric Engineering; £5,000 p.a.

01/2012 - 09/2016 Klaus-Murmann Fellowship

Foundation of German Business

Berlin, DEU

• Maintenance up to €18,000 p.a., all tuition; full award worth €90,000

• Awarded to <0.05 % of German students for academic & entrepreneurial excellence

Honours & Awards

09/2020; 09/2021 Invitation to the Heidelberg Laureate Forum (HLF)

HIE

Heidelberg, DEU

- Awarded to <100 early career researchers around the world
- Invited to present my work to Laueates in Mathematics and Computer Science

05/2018 Reproducible Research Champions Award

Alan Turing InstituteLondon, GBR

- Reproducibility award by the Alan Turing Institute for published work
- Awarded time from the institute's software engineering team to refine software

Research Visits_

01/2020 - 12/2021	Alan Turing Institute	Data-Centric Engineering Group
	Permanent relocation from Warwick University to work within the Data-Centric Engineering group; financially supported by a Visiting Researcher Fellowship	
03/2021 - 08/2021	Research Internship @ DeepMind London	Prof. Csaba Szepesvari
08/2019 - 12/2019	Theory & Foundations Research Team; expected Research Internship @ Amazon Cambridge	result: publication Prof. Neil Lawrence
	Supply Chain Optimization Team; results: publica	2 3
03/2019 - 07/2019	Duke University	Prof. David Dunson
	Initiation of an ongoing collaboration on computing generalized posteriors	

Selected Talks

Academic institutions: Duke University, Columbia University, Cornell University, New York University's Courant Institute, Oxford University, University of Edinburgh, Alan Turing Institute [One-day workshop series, Data-Centric Engineering Seminar, Rough Paths Group], Lancaster University, Glasgow University, University of Sheffield, Warwick University, Leeds University, Imperial College London, University of Geneva, Continual AI global seminar

Conferences: Heidelberg Laureate Forum 2020, International Conference on Machine Learning (2018, 2020), Advances in Neural Information Processing Systems 2018, Workshop on Computational Strategies for Large-Scale Statistical Data Analysis by the International Centre for Mathematical Sciences in Edinburgh (2018), Gregynog Statistical Conference (2017–2019)

Industry: Amazon Cambridge (GBR), Facebook Research Core Data Science London (GBR) as well as Menlo Park (USA), Google Brain Mountain View (USA), DeepMind (GBR)

Co-Supervision_

- Takuo Matsubara, late-stage PhD student at Newcastle University & the Alan Turing Institute, co-supervised a recently published paper at JRSS-B.
- Charita Dellaportas, early-stage PhD student at Warwick University. Co-supervised a recently published paper at AISTATS 2022.
- Ollie Hamelijnck & Juan Maronas, early-stage PhD students at Warwick & the University of Valencia. Co-supervised a published paper at AISTATS 2021.
- Georgios Felekis, MSc Machine Learning at UCL. Co-supervised MSc thesis *Generalised Variational Inference posteriors in Probabilistic Deep Learning*.
- Ioannis Zachos, undergraduate at Warwick University. Co-Supervised BSc thesis *Bayesian On-line Changepoint Detection of Point Processes*, graduated first class and is now a PhD at Cambridge

Services to the community _____

Reviewing activities: Journal of the Royal Statistical Society Series B (JRSS-B), Journal of Machine Learning Research (JMLR), Transactions on Pattern Analysis and Machine Intelligence (TPAMI), Artificial Intelligence and Statistics (AISTAS), Neural Information Processing Systems (NeurIPS), International Conference on Machine Learning (ICML), International Conference on Learning Representations (ICLR).

Outstanding Reviewer Awards: ICML 2020, ICLR 2020

Organization of reading groups & seminars:

- Optimization Study Group at Warwick (Lecture Notes on Convex Optimization by Nesterov), 2018/2019.
- Data-Centric Engineering Seminar Series at the Alan Turing Institute (full archive here: https://dce-rg.github.io/), 2019/2020.
- Functional Analysis Study Group at UCL (*An Introduction to Functional Analysis* by James Robinson), 2021.

Notable Experiences outside Research _____

07/2014 - 09/2015 Starting player for the Dutch U23 Ultimate Frisbee Team

NFB

Amsterdam, NLD

• Team placed 20th at the 2015 U23 World Cup in London

06/2011 - 08/2012 **Project Manager**

Model UN Baden-Württemberg

J. Undblack

Stuttgart, DEU

• Management of a 5 day conference with 550 participants

• €120,000 budget & communication with main sponsor Daimler AG

• Delegating 65 staff throughout a year of preparations

London, 02/02/2022.