

# Dario STEIN

## CONTACT

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## EDUCATION

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- OCT 2017 - PRESENT DPhil (PhD) in COMPUTER SCIENCE  
**University of Oxford**, Balliol College  
Group for FOUNDATIONS, STRUCTURES AND QUANTUM  
Supervisor: Sam Staton  
Scholarship: EPSRC & DeepMind
- OCT 2016 - JULY 2017 Master of Advanced Study (MASt) in PURE MATHEMATICS  
Part III of the Mathematical Tripos  
**University of Cambridge**, St Edmund's College  
Essay on "Locally presentable and accessible categories"  
Assessor: Peter Johnstone  
Scholarship: Deutscher Akademischer Austauschdienst (DAAD)
- OCT 2014 - JULY 2016 Postgraduate courses in MATHEMATICS  
**University of Hamburg**  
Specialization in algebraic geometry  
Supervisor: Bernd Siebert
- OCT 2013 - MAR 2014 Bachelor of Science in MATHEMATICS  
**University of Valladolid** (exchange semester)
- OCT 2011 - JULY 2014 Bachelor of Science (BSc) in MATHEMATICS (Minor in PHYSICS)  
**University of Hamburg**  
Dissertation "Über verzweigte Überlagerungen von  $\mathbb{P}^1$  und Bahnen der Hurwitz-Wirkung" (On branched coverings of  $\mathbb{P}^1$  and orbits of the Hurwitz action)  
Supervisor: Bernd Siebert

## PUBLICATIONS

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**Dario Stein**, Sam Staton. COMPOSITIONAL SEMANTICS FOR PROBABILISTIC PROGRAMS WITH EXACT CONDITIONING, To appear in *Proceedings of Thirty-Sixth Annual ACM/IEEE Conference on Logic in Computer Science (LICS 2021)* **Distinguished Paper** 16 pages

Marcin Sabok, Sam Staton, **Dario Stein**, Michael Wolman<sup>1</sup>. PROBABILISTIC PROGRAMMING SEMANTICS FOR NAME GENERATION, In *Proceedings of the ACM on Programming Languages* vol. 5 (POPL 2021) 29 pages.

Sam Staton, **Dario Stein**, Hongseok Yang, Nathanael L. Ackerman, Cameron E. Freer, Daniel M. Roy THE BETA-BERNOULLI PROCESS AND ALGEBRAIC EFFECTS, in *Proceedings of 45th International Colloquium on Automata, Languages and Programming (ICALP 2018)* 15 pages

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<sup>1</sup>equal contribution

*Note:* In theoretical computer science, the main indicator of success are publications in competitive conferences. Research papers are published in the conference proceedings. There are different conventions on author order, e.g. the POPL paper is alphabetical.

## FURTHER PRESENTATIONS

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- 2021 OXFORD QUANTUM GROUP WORKSHOP
  
- 2021 LANGUAGES FOR INFERENCE, satellite conference to  
ACM SIGPLAN SYMPOSIUM ON PRINCIPLES OF PROGRAMMING LANGUAGES
  
- 2020 SECOND INTERNATIONAL CONFERENCE ON PROBABILISTIC PROGRAMMING,  
Poster presentation, Boston
  
- 2020 JOINT PPS - PIHOC - DIAPASoN WORKSHOP, Paris
  
- 2020 LANGUAGES FOR INFERENCE, satellite conference to  
ACM SIGPLAN SYMPOSIUM ON PRINCIPLES OF PROGRAMMING LANGUAGES
  
- 2019 JUNIOR SEMANTICS SEMINAR, OXFORD
  
- 2018 QUANTUM LUNCH, OXFORD

## AWARDS AND SCHOLARSHIPS

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- 2018 STUDENT TRAVEL GRANT to attend 45TH INTERNATIONAL COLLOQUIUM ON  
AUTOMATA, LANGUAGES, AND PROGRAMMING (ICALP 2018), offered by ICALP and RSJ
  
- 2018 GRADUATE PROJECT GRANT to attend MIDLANDS GRADUATE SCHOOL 2018,  
offered by BALLIOL COLLEGE
  
- 2017 OXFORD-DEEP MIND Graduate Scholarship
  
- 2017 EPSRC Doctoral Training Partnership Studentship
  
- 2016 DAAD Studienstipendium für Graduierte aller wissenschaftlichen Fächer

## SERVICE & TEACHING

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- 2021 Program Committee for THIRD INTERNATIONAL CONFERENCE ON PROBABILISTIC PROGRAMMING
  - 2020 Class tutor for CATEGORIES, PROOFS & PROCESSES, Oxford
  - 2020 Class tutor for QUANTUM INFORMATION, Oxford
  - 2020 Student volunteer at ACM SIGPLAN SYMPOSIUM ON PRINCIPLES OF PROGRAMMING LANGUAGES
  - 2019 Class tutor for PRINCIPLES OF PROGRAMMING LANGUAGES, Oxford
  - 2019 Class tutor for PROBABILITY & COMPUTING, Oxford
  - 2018 Student volunteer at FEDERATED LOGIC CONFERENCE
  - 2015 Class tutor for LINEARE ALGEBRA, Hamburg
- Reviews for COMPOSITIONALITY, MSCS, PROBPROG

## FURTHER INTERESTS

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|--------------|--|
| 2019         | GRADUATE SUMMER SCHOOL: LEADERSHIP AND INNOVATION<br>MPLS Training, University of Oxford   |
| 2009-present | Founder Member of ActiveVB e.V.<br>ActiveVB is one of the leading German-speaking communities dedicated to sharing knowledge around software development and computer science, with an original focus on Visual Basic and .NET technology. I published and worked as a moderator under <a href="http://activevb.de">http://activevb.de</a> |

## PROGRAMMING SKILLS

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|------------------------|---------------------------|
| ADVANCED KNOWLEDGE     | C#,F#,PYTHON,HASKELL      |
| INTERMEDIATE KNOWLEDGE | C++,OCAML,SCALA,RUST,AGDA |

## LANGUAGES

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|---------|--|
| GERMAN  | Native speaker                         |
| ENGLISH | Fluent                                 |
| SPANISH | C1                                     |
| Other   | French (B1), RUSSIAN (A2), ARABIC (A1) |

## INTERESTS AND ACTIVITIES

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Travel, Languages, Politics, Philosophy, Piano, Sailing