

Tomas Petricek

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Professional Highlights

1. **International Experience.** I obtained PhD from [University of Cambridge](#), worked as post-doctoral researcher at [Microsoft Research](#) and in [The Alan Turing Institute](#) in London. I then spent 4 years as a lecturer (permanent academic position) at [University of Kent](#). I collaborate with multiple research groups and my recent co-authors and research collaborators are based in the [UK](#), [USA](#), [Netherlands](#), [Denmark](#), [Germany](#) and [France](#).
2. **Academic Publications.** I am the author of 17 papers in top-tier venues (including [PLDI](#), [POPL](#), [ECOOP](#), [ICFP](#) and [ICALP](#)), five of which received a best paper award and 24 other papers. I wrote a monograph on history of programming (to be published by [Cambridge University Press](#)) and a tutorial book for professional developers (selling over 10,000 copies). I have an h-index of 14 (6 in WoS) and my work has 880+ citations (160 in WoS).
3. **Research Impact.** My PhD research, presented in a paper with 130+ citations (35 in WoS), introduced the notion of [coeffects](#) which has since been subject of several grants in the [UK](#), [France](#), [USA](#) and [Iceland](#). It influenced the design of [Scala](#) and has been adopted by Meta in the [Hack](#) language. My research on functional programming also directly contributed to the design of the [F# language](#).
4. **Peer Recognition.** My paper on integration of external semi-structured data into a static type system, was awarded [Distinguished Paper Award](#) at PLDI and selected as [ACM SIGPLAN Research Highlight](#), recognizing it as one of three best programming language papers of the year. I have been an invited [keynote speaker](#) at 5 academic and industry conferences and joined the invitation-based [IFIP WG 2.16 Language Design](#) group.
5. **Technology Transfer.** My work is not limited to papers. The open-source [F# Data package](#) I created is the most downloaded F# library and has over [110 industry contributors](#). My work on asynchronous programming has become a core component of the infrastructure at Jet.com, a start-up acquired by Walmart for \$3bn. The interactive web-based essays presenting my work, published at [tomasp.net](#), have attracted [over 50,000 visitors](#).
6. **Research Funding.** I was awarded the 4-year [PRIMUS](#) grant at Charles University (worth €610,000) to establish a research group focused on [Types for data-centric programming](#). Previously, I secured research funding (worth £420,000) from the UK Ministry of Defence (Dstl) and GCHQ for applied research on trustworthy and accessible tooling for data science and €50,000 from [Google Digital News Initiative](#).
7. **Teaching Experience.** I developed 2 new courses on [Programming Language Design and Implementation](#) at Charles University, redesigned the [Software Engineering](#) module at University of Kent and taught it to 40+ MSc and 200+ undergraduate students. I taught or supervised labs for 9 other courses ranging from algorithms and formal semantics to human-computer interaction at Charles University, Kent and University of Cambridge.
8. **Student and Research Supervision.** I supervise [1 PhD student](#) and [2 post-docs](#) at Charles University. Previously, I supervised 1 PhD student at University of Kent (graduated in 2023), 1 post-doc (now at University of Cambridge) and 4 graduate and undergraduate internships. At Charles University, I supervised [10 Bachelor's theses](#) (7 defended, 3 ongoing) and [2 Master's theses](#) (2 defended). At University of Kent, I supervised 40+ students for their final-year BSc and MSc projects and I supervised 3 final Part II projects at Cambridge.
9. **Academic Service.** I serve as the [General Chair](#) of the International Conference on the Art, Science, and Engineering of Programming 2025 in Prague and have served as an organizer or co-chair of 5 other workshops and conference tracks. I have served as a [Program Committee](#) member of 42 conferences and workshops including [OOPSLA](#), [ECOOP](#), [HOPL](#), [Programming](#) and [Onward!](#) I reviewed papers for 21 other journals and conferences, served as the examiner of [4 PhD theses](#) and reviewed 5 international grant applications.