

# Tomas Petricek

<http://tomasp.net> | [tomas@tomasp.net](mailto:tomas@tomasp.net) | 0000-0002-7242-2208

## Education and Positions

- **Assistant Professor, Charles University, Prague**, 2022 – present
- **Lecturer, University of Kent**, 2018 – 2022
- **Collaborating Fellow and Visiting Researcher, The Alan Turing Institute**, 2016 – 2020
- **Post-doctoral Researcher and Contractor, Microsoft Research Cambridge**, 2014 – 2016
- **PhD, Computer Laboratory, University of Cambridge**, 2011 – 2016
- **BSc and MSc, Computer Science, Charles University, Prague**, 2004 – 2010

## Recent publications

For historical reasons, highly-selective conference publications are preferred over journal papers in computer science. I am the author of 17 papers in highly-selective venues (including POPL, PLDI, ICFP, ICALP, ECOOP) and 24 other peer-reviewed papers. I have an h-index of 16 (6 in WoS) and my work has 1040+ citations (188 in WoS).

- **Tomas Petricek**. *Cultures of Programming: The Development of Programming Concepts and Methodologies*. 351 pages, Cambridge University Press, ISBN 9781009492379, 2025
- Peter Taylor-Gooby, **Tomas Petricek**, Jack Cunliffe. *Covid-19, Charitable Giving and Collectivism: A Data-Harvesting Approach*. Journal of Social Policy, vol. 52, issue 3, pp. 473-494, Cambridge University Press (IF: 1.9), [10.1017/S0047279421000714](https://doi.org/10.1017/S0047279421000714), 2023
- Joel Jakubovic, Jonathan Edwards and **Tomas Petricek**. *Technical Dimensions of Programming Systems*. The Art, Science, and Engineering of Programming, vol. 7, issue 3, no. 13, [10.22152/programming-journal.org/2023/7/13](https://doi.org/10.22152/programming-journal.org/2023/7/13), 2023
- **Tomas Petricek**, Gerrit J. J. van Den Burg, Alfredo Nazábal, Taha Ceritli, Ernesto Jiménez-Ruiz and Christopher K. I. Williams. *AI Assistants: A Framework for Semi-Automated Data Wrangling*. IEEE Transactions on Knowledge and Data Engineering, vol. 35, issue 9, pp. 9295-9306 (IF: 8.9), [10.1109/TKDE.2022.3222538](https://doi.org/10.1109/TKDE.2022.3222538), 2023
- **Tomas Petricek**. *The Gamma: Programmatic Data Exploration for Non-programmers*. VL/HCC '22: Proceedings of the IEEE Symposium on Visual Languages and Human-Centric Computing, [10.1109/VL/HCC53370.2022.9833134](https://doi.org/10.1109/VL/HCC53370.2022.9833134), 2022
- Roly Perera, Minh Nguyen, **Tomas Petricek** and Meng Wang. *Linked Visualisations via Galois Dependencies*. Proceedings of the ACM on Programming Languages, vol. 6 (POPL), pp. 1-29 (IF: 1.8), [10.1145/3498668](https://doi.org/10.1145/3498668), 2022
- Joel Jakubovic and **Tomas Petricek**. *Ascending the Ladder to Self-Sustainability: Achieving Open Evolution in an Interactive Graphical System*. Onward! '22: Proceedings of the 2022 ACM SIGPLAN International Symposium on New Ideas, New Paradigms, and Reflections on Programming and Software, pp 240-258, [10.1145/3563835.3568736](https://doi.org/10.1145/3563835.3568736), 2022
- Jonathan Edwards and **Tomas Petricek**. *Interaction vs. Abstraction: Managed Copy and Paste*. PAINT '22: Proceedings of the 1st ACM SIGPLAN International Workshop on Programming Abstractions and Interactive Notations, Tools, and Environments, pp 11-19, [10.1145/3563836.3568723](https://doi.org/10.1145/3563836.3568723), 2022
- Joel Jakubovic, Jonathan Edwards, **Tomas Petricek**. *Technical Dimensions of Programming Systems*. PLoP '21: Presented at 28th Conference on Pattern Languages of Programs, Fall, 2021
- **Tomas Petricek**. *Composable Data Visualizations*. Journal of Functional Programming, vol. 31, e. 13, Cambridge University Press (IF: 1.1), [10.1017/S0956796821000046](https://doi.org/10.1017/S0956796821000046), 2021

# Academic Recognition and Collaboration

## Professional Membership

- **IFIP TC2 Working Group 2.16 Language Design** (2024 – present). Member of an invitation-based group of 40 leading programming language experts that meets twice a year for an intensive week-long meeting.

## Awards

- **Reviewers' Choice Award**, «Programming» 2023. Awarded for a paper on programming systems.
- **Reviewers' Choice Award**, «Programming» 2020. Awarded for a paper on data exploration tools.
- **ACM SIGPLAN Research Highlight**. My first-author paper was chosen as an ACM SIGPLAN Research Highlight, making it one of the three best programming language papers of the past year.
- **Editors' Choice Award**, «Programming» 2018. Awarded for a paper on the history of monads.
- **Reviewers' Choice Award**, «Programming» 2017. Awarded for a paper on the history of errors.
- **Distinguished Paper Award**, PLDI 2016. Awarded for a paper on types for semi-structured data
- **ACM Student Research Competition**. 1st place at ICFP 2014 and 2nd place at ICFP 2012
- **Microsoft MVP Award**, 2004 – 2023. Awarded annually for contributions to the F# community

## Refereeing

- **Program Committee Member**. Total 43 memberships including Onward! 2024, OOPSLA 2024, PX 2023, ECOOP 2023, Onward! Essays 2023, Programming 2023, PAINT 2023, OOPSLA 2023, ProWeb 2022, PADL 2022, ECOOP 2022, PX 2022, Programming 2022, HOPL IV 2021, Programming 2021, Onward! Essays 2021, AutoDS 2021, PX 2020, LIVE 2020, HaPoC 2019, Onward! Essays 2019, LIVE 2019, TFP 2015, ISMM 2012
- **Reviewer**. In the past, I also reviewed papers for UIST, Computing, TOPLAS, Programming, Minds and Machines, Philosophy & Technology, ECOOP, PLoP, Simulation, Software: Practice and Experience, EICS, ICFP, IEEE Access, POPL, JLAMP, PLACES, TFP, PPDP, CC, Computability in Europe, TLCA
- **PhD Examiner**. I reviewed PhD theses completed at Hasso Plattner Institute (2025), Université Paris-Saclay (2024), CTU Prague (2023), University of Ghent (2022)
- **Grant Proposal Reviewer**. I reviewed grant proposals for GAUK (Czechia), FONDECYT (Chile), The Alan Turing Institute (UK), EPSRC (UK), ISF (Israel)

## Research Supervision

- **Tianyao Zhou** (PhD Student), Charles University, 2025 – present
- **Pablo Donato** (Post-doctoral Researcher), Charles University, 2025 – present
- **Jan Liam Verter** (PhD Student), Charles University, 2024 – present
- **Aleks Boruch-Gruszecki** (Post-doctoral Researcher), Charles University, 2024 – present
- **Joel Jakubovic** (Post-doctoral Researcher), Charles University, 2024 – present
- **Nour Boulahcen** (Undergraduate Internship), University of Kent, May 2019 – June 2019
- **Joel Jakubovic** (PhD Student), University of Kent, 2019 – 2023
- **Roly Perera** (Post-doctoral Researcher), The Alan Turing Institute, 2019
- **Mariana Marasoiu, Pablo León-Villagrà, Sarwar Islam** (Research Internship), The Alan Turing Institute, 2017

## Research Funding

- **PRIMUS Research Programme, Charles University**, , Award value €610,000 (2024 – 2028)
- **Fellowship, ACM History Committee**, , Award value \$4000 (2018)
- **Dstl & GCHQ grants, The Alan Turing Institute**, , Award value £420,000 (2017 – 2020)
- **Innovation Fund, Google Digital News Initiative**, , Award value €50,000 (2016)
- **Travel Grants, ACM**, , Award value 3x\$1000 (2010, 2012, 2014)