Filip Křikava

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Employment

01/22 -	**Associate professor** Czech Technical University, CZ	**11/13 - 05/15**	**Postdoctoral fellow** Inria Lille, FR
06/22 - 03/23	**Contractor** Lacework, US *(remote)*	**11/09 - 08/13**	**PhD student** CNRS, FR
03/17 - 12/21	**Assistant professor** Czech Technical University, CZ	**01/09 - 07/09**	**Team lead** TomTom International, NL
09/16 - 02/17	**Postdoctoral fellow** Northeastern University, US	**02/07 - 12/08**	**Software engineer** TomTom International, NL
09/15 - 08/16	**Staff engineer** ORACLE, CZ	**07/05 - 01/07**	**Software engineer** Sun Microsystems., US
07/15 - 08/16	**Assistant professor** *(part time)* Czech Technical University, CZ	**01/04 - 06/05**	**Software engineer** Accenture Central Europe, CZ

Education

2013 **PhD in Computer Science**, defended on 22.11.2013
University: CNRS / Université Nice - Sophia Antipolis, France; highest honor
Advisers: Philippe Collet, Johan Montagnat

2009 **Master of Science**, defended on 27.01.2009
University: Czech Technical University in Prague, Czech Republic; best master thesis award
Adviser: Petr Moos

Teaching activities

I regularly teach Object-oriented programming (winter semester, bachelor-level, ~200 students), program analysis (winter semester, master-level, ~20 students) and runtime systems (summer semester, ~20 students)

Selected activities in the last 5 years

2025 Steering committer of OOPSLA
Organizing committee of REBASE
Organizing committee of MoreVM
Invited talk at Core R annual meeting

2024 Organizing committee of REBASE

2022 - 2023 a sabbatical in the industry; contractual work

2022 Habilitation, Faculty of Information Technology, Czech Technical University

2021 Organizing committee of REBASE at ECOOP
Organizing committee of REBASE at SPLASH

Selected publications in the last 5 years

- Donat-Bouillud, P., Křikava, F., Krynski, S., & Vitek, J. (2025). R4R: Reproducibility for R. In Proceedings of the 2025 ACM Conference on Reproducibility and Replicability (REP).

- Donat-Bouillud, P., Křikava, F., Hain, J., Plodek, A., & Vitek, J. (2025). Comparing R Bytecode Compilers Written in R, Java, and Rust. In Proceedings of the 9th International Workshop on Modern Language Runtimes, Ecosystems, and VMs (MoreVMs).

- Laurent, M., Hain, J., Křikava, F., Krynski, S., & Vitek, J. (2025). Toward a Typed Intermediate Language for R. In Proceedings of the 4th Workshop on Value Independence in Modern Programming Languages (VIMPL).

- Krynski, S., Stepanek, M., Řiha, F., Křikava, F., & Vitek, J. (2024). Reducing Feedback Pollution. In Proceedings of the 16th ACM SIGPLAN International Workshop on Virtual Machines and Intermediate Languages (VMIL).

- Turcotte, A., Donat-Bouillud, P., Křikava, F., & Vitek, J. (2022). signatr: A Data-Driven Fuzzing Tool for R. In Proceedings of the 15th ACM SIGPLAN International Conference on Software Language Engineering (pp. 216-221).

- Goel, A., Donat-Bouillud, P., Křikava, F., Kirsch, C. M., & Vitek, J. (2021). What We Eval in the Shadows: A Large-Scale Study of Eval in R Programs. Proceedings of the ACM on Programming Languages, 5(OOPSLA), 1-23.

Additional publications currently under review

- Krynski, S., Řiha, F., Křikava, F., & Vitek, J. (2026). Characterizing Type Feedback in Just-in-Time Compilation. In Proceedings of the 40th European Conference on Object-Oriented Programming (ECOOP). (Conditional accept).

- Kocourek, M., Křikava, F., Donat-Bouillud, P., & Vitek, J. (2026). Leveraging Copy-and-Patch JIT for Low-Overhead Dynamic Program Analysis. In Proceedings of the 21st International Conference on Managed Programming Languages and Runtimes (MPLR). (Under review).

- Laurent, M., Donat-Bouillud, P., Křikava, F., & Vitek, J. (2026). Revisiting Row Polymorphism for Set-Theoretic Types. Proceedings of the ACM on Programming Languages, 10(OOPSLA). (Under review).

- Laurent, M., Hain, J., Křikava, F., Krynski, S., & Vitek, J. (2026). A Typed Intermediate Representation for Dynamic Languages. ACM Transactions on Programming Languages and Systems (TOPLAS). (Conditional accept).