

Profir-Petru Pârțachi

E-Mail: [me\[at\]partachi\[dot\]com](mailto:me[at]partachi[dot]com)

Web: partachi.com

LinkedIn: [pp-partachi](https://www.linkedin.com/in/pp-partachi)

Education	PhD in Computer Science <i>Centre for Research on Evolution, Search and Testing</i> PhD Thesis: 'Improving Software Project Health Using Machine Learning' Supervised by <i>Prof. Earl T. Barr (e.barr[at]ucl[dot]ac[dot]uk)</i>	September 2016 – December 2020 <i>University College London, Gower Street, London WC1E 6BT</i>
	Computer Science Tripos <i>King's College, University of Cambridge</i> BA in Computer Science BA Thesis: 'Deck building in Hearthstone Using a Genetic Algorithm.'	September 2013 – July 2016 <i>Cambridge, United Kingdom</i>
Work Experience	Post-doctoral Researcher <i>National Institute of Informatics</i> Research into the naturalness properties of structured representations of source-code. Supervised by Assoc. Prof. Mahito Sugiyama	April 2022 – now <i>Chiyoda-ku, Tokyo, Japan</i>
	Freelance Researcher <i>National Institute of Informatics</i> Research into the naturalness properties of structured representations of source code. Consulting for Assoc. Prof. Mahito Sugiyama	April 2021 – April 2022 <i>Chișinău, Republic of Moldova</i>
	Research Internship <i>National Institute of Informatics</i> Worked on the efficient processing of spatiotemporal data for anomaly detection using Graph Kernels. Supervised by Assoc. Prof. Mahito Sugiyama	October 2018 – April 2019 <i>Chiyoda-ku, Tokyo, Japan</i>
	Hardware/Software Engineer Intern <i>Computer Laboratory, University of Cambridge</i> Worked within the lowRISC team to provide: <ul style="list-style-type: none">• Hardware implementations of DCT, IDCT, and colour space conversions for MPEG2 as AXI-stream accelerators.• Hardware logic to interface AXI-stream accelerators with the lowRISC CPU chip.	June 2016 – September 2016 <i>Cambridge, United Kingdom</i>
	Software Developer Intern <i>Amazon Instant Video</i> Worked on providing an auditing infrastructure by: <ul style="list-style-type: none">• Writing a plug-in to wrap calls to backend systems to log calls and responses.• Storing intercepted calls and pre-processing stored data in Amazon Redshift for auditing reports.	June 2015 – October 2015 <i>London, United Kingdom</i>
Publications	<p>[1] Pârțachi, P.-P., White, D. R., & Barr, E. T., Aide-mémoire: Improving a Project's Collective Memory via Pull Request-Issue Links. In <i>ACM Transactions on Software Engineering and Methodology</i>, ACM., May, 2022. https://github.com/PPPI/a-m</p> <p>[2] Pârțachi, P.-P., Dash, S. K., Allamanis, M., & Barr, E. T., Flexeme: Untangling Commits Using Lexical Flows. In <i>28th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering, (ESEC/FSE 2020)</i>. Sacramento, California, United States; ACM, November, 2020; https://partachi.com/Flexeme</p>	

- [3] Pârțachi, P.-P., Treude, C., Dash, S. K., & Barr, E. T., **POSIT: Simultaneously Tagging Natural and Programming Languages**. In *42nd International Conference on Software Engineering (ICSE '20)*. Seoul, Republic of Korea; ACM., July 2020; <https://partachi.com/POSIT>
- [4] Pârțachi, P.-P. **Improving Software Project Health Using Machine Learning**. PhD diss., UCL (University College London), 2020.

Teaching Experience	COMPM203 Verification and Validation <i>Teaching Assistant</i> Leading problem-based workshops, assisting exam setting, and exam marking	January 2020 – July 2020 <i>University College London</i>
	COMP103P Applied Software Development <i>Teaching Assistant</i> Laboratory Supervisor and Group Project Supervisor	January 2018 – April 2018 <i>University College London</i>
	COMPM203 Verification and Validation <i>Teaching Assistant</i> Coursework writing and marking	January 2018 – April 2018 <i>University College London</i>
	COMP213P Systems Engineering <i>Teaching Assistant</i> Group Project Supervisor	October 2017 – April 2018 <i>University College London</i>

Awards	Cambridge Commonwealth Trust 2013-2014 <i>For the purpose of BA Computer Science Tripos at King's College, Cambridge</i>
	HMC Reduced Fee Scheme 2012 <i>For the purpose of attending Seaford College for UK A-levels</i>

Reviews	Conferences
	<ul style="list-style-type: none"> – Program Committee member for: Research and Experience at CAIN 2024, Artifact Track at ICSE 2024, InteNSE 2023, Research Track at SANER 2023, Research Track at SANER 2022, Mining Challenge at MSR 2021. – Reviewing for: ICML 2024, ICLR 2024, NeurIPS 2023. – Sub-reviewing for: ASE 2022, ISSTA 2021, SANER 2021, ICSE 2021, Registered Studies at ICSME 2020, ASE 2020, MSR 2020, FSE 2019, ISSTA 2019, ASE 2018, ECOOP 2018, ISSTA 2018, and MSR 2017.
	Journals

	<ul style="list-style-type: none"> – Reviewing for: TOSEM 2023, TOSEM 2022, JSS 2022, JSS 2021, EMSE 2021, and MTAP 2020. – Sub-reviewing for: EAAI 2020, and TSE 2017
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Technology Skills	Programming Languages: Python, Java, Haskell.
	Theorem Proof Assistants: Coq.

Language Skills	Native: Romanian.
	Fluent: English, Russian.
	Intermediate: Czech, German.
	Beginner: Japanese.