CV Supplmenent 2—List of Selected Publications

- [1] Viktor Senderov, Jan Kudlicka, Daniel Lunden, Viktor Palmkvist, Mariana P Braga, Emma Granqvist, David Broman, and Fredrik E Ronquist. Treeppl: A universal probabilistic programming language for phylogenetics. bioRxiv, 2023. I am the lead designer of te TreePPL language and a major developer of the compiler. I wrote the draft of the paper except for Section 3. I am responsible for organizing work within the team of TreePPL and for the TreePPL popularization by means of course materials, websites, symposium events. doi:10.1101/2023.10.10.561673.
- [2] Viktor Senderov, Fredrik Ronquist, Jan Kudlicka, Johannes Borgström, Nicolas Lartillot, Daniel Lundén, Lawrence Murray, Thomas B Schön, and David Broman. Universal probabilistic programming offers a powerful approach to statistical phylogenetics. Communications biology, 4(1):244, 2021. Q1, IF: 6.5, Citations: 29. I have equal contribution together with FR and JK. I participated since the early rounds of brainstorming and collaboration as to the applications of PPL in phylogenetics. I was in charge of WebPPL. I wrote a large part of the supplementary materials, as well as figures in the main text. I ran computational verification. URL: https://www.nature.com/articles/s42003-021-01753-7.
- [3] Viktor Senderov, Kiril Simov, Nico Franz, Pavel Stoev, Terry Catapano, Donat Agosti, Guido Sautter, Robert A Morris, and Lyubomir Penev. OpenBiodiv-O: ontology of the OpenBiodiv knowledge management system. *Journal of biomedical semantics*, 9:1–15, 2018. Q1, IF: 1.67, Citations: 52. *I developed the ontology based on my own original ideas and ideas by Berendsohn and Franz. I encoded the ontology in OWL. I wrote the manuscript and used the ontology as the underlying data schema of the OpenBiodiv database. URL: https://jbiomedsem.biomedcentral.com/articles/10.1186/s13326-017-0174-5.*
- [4] Daniel Lundén, Joey Öhman, Jan Kudlicka, **Viktor Senderov**, Fredrik Ronquist, and David Broman. Compiling Universal Probabilistic Programming Languages with Efficient Parallel Sequential Monte Carlo Inference. In *ESOP*, pages 29–56, 2022. Excellence in Computing Research Rank: A, Citations: 7. *I contributed to the discussion that led to CorePPL. I contributed to the benchmarking of CorePPL by developing phylogenetics scenarios. I provided the hardware and the operating system for the artefact creation for the conference. URL: https://link.springer.com/chapter/10.1007/978-3-030-99336-8_2.*
- [5] **Viktor Senderov** and Lyubomir Penev. The Open Biodiversity Knowledge Management System in Scholarly Publishing. *Research Ideas and Outcomes*, 2:e7757, 2016. Q1, IF: 2.5, Citations: 19. *I am the chief architect and developer of OpenBiodiv. I wrote the manuscript and the roadmap for future semantic database development at Pensoft*. URL: https://riojournal.com/article/7757/.
- [6] Lyubomir Penev, Daniel Mietchen, Vishwas Chavan, Gregor Hagedorn, Vincent Smith, David Shotton, Éamonn Ó Tuama, **Viktor Senderov**, Teodor Georgiev, Pavel Stoev, et al. Strategies and guidelines for scholarly publishing of biodiversity data. *Research*

- Ideas and Outcomes, 3:e12431, 2017. Q1, IF: 2.5, Citations: 59. I am the author of several templates for Biodiversity Data Journal (BDJ) as well as automated workflows for data-paper and occurrence data integration. I was technical lead of BDJ during my PhD. URL: https://riojournal.com/article/12431/.
- [7] Pedro Cardoso, Pavel Stoev, Teodor Georgiev, **Viktor Senderov**, and Lyubomir Penev. Species Conservation Profiles compliant with the IUCN Red List of Threatened Species. *Biodiversity Data Journal*, 4, 2016. Q2, IF: 1.5, Citations: 24. *I conceptualized the digital publication equivalent of the IUCN red list database entry and developed an automated flow linking the two.* URL: https://bdj.pensoft.net/article/10356/.
- [8] Viktor Senderov, Teodor Georgiev, and Lyubomir Penev. Online direct import of specimen records into manuscripts and automatic creation of data papers from biological databases. Research Ideas and Outcomes, 2, 2016. Q1, IF: 2.5, Citations: 10. I conceptualized and wrote the source code for automatic data paper creation and for automatic import of specimen records. I wrote the manuscript. URL: https://riojournal.com/article/10617/.
- [9] Mariya Dimitrova, **Viktor E Senderov**, Teodor Georgiev, Georgi Zhelezov, and Lyubomir Penev. Infrastructure and population of the OpenBiodiv biodiversity knowledge graph. *Biodiversity Data Journal*, 9, 2021. Q2, IF: 1.5, Citations: 6. *I am the original author of the software package for parsing papers into OpenBiodiv and of the initial software architecture and helped draft the manuscript*. URL: https://bdj.pensoft.net/article/67671/instance/6820326/.