Viktor Senderov

CV Supplement 3—Summary of Pedagogical Achievements

Teaching experience

2020   **Lecturer: computational skills for biologists**, *National Museum for Natural History and Stockholm University*, Sweden

Python and related skills for science; I was one of several lecturers, my topic was source control with `git`

- Course duration: 1 semester (15 weeks)
- I gave a lecture and an excercise on `git` and was available throughout the semester to answer questions and help with homework assignments
- Instruction language: English
- Circa 20 students

2020   **Study group leader: phylogenetics**, *National Museum for Natural History*, Sweden

Literature course in phylogenetics for graduate students and researchers

- Course duration: 1 semester (15 weeks, 2h/week)
- Mostly self-study course with light supervision by Prof. F. Ronquist and me
- Instruction language: English
- 7 students

25 Aug 2017   **Lecturer: bioinformatics**, *Software University*, Sofia, Bulgaria

Bioinformatics with R. Software university is a private educational institute for programmers; I also participated in planning a bioinformatics curriculum for the Software University

- 1 invited lecture: Bioinformatics with R. (2 hours)
- Instruction language: Bulgarian
- circa 100 students

2017   **Course developer and lecturer: bioinformatics**, *National Museum of Natural History*, Sofia, Bulgaria

"R U BIO": Innovative concept for teaching statistics and R to graduate students of biology across majors and home universities in Bulgaria; I developed the course concept and organized the course with the help of the "Scientific discussions club" at the museum

- Course duration: 10 weeks
- I held 2 h/week lecture and 1 h/week exercise
- I was available throughout the course duration for discussions and helping with analyzing the participants' own data
- Instruction language: Bulgarian
- circa 60 students (from Sofia University, Bulgarian Academy of Sciences, National Museum of Natural History, University of Forestry)

| 2015 | **Teaching assistant: statistics**, *Ludwig-Maximilians-Universität*, Munich, Germany |

Mathematik II – Wahrscheinlichkeitsrechnung und Statistik: "Probability theory and statistics for biologists", main lecturer was Prof. D. Metzler

- 1 semester (15 weeks)
- I taught 2 hours each week for 15 weeks and corrected homework and the final exam
- Instruction language: German
- circa 15 students

| 2010 – 2011 | **Teaching assistant: statistics**, *University of California*, Davis |

STA 13 Elementary Statistics

- 2 quarters long (2 x 10 weeks) courses taught by Prof. Jie Peng and Prof. Christiana Drake
- I taught 2 hours each week and held office hours 1 h each week and corrected homework assignments and helped with final exam
- Instruction language: English
- circa 25 students

Supervision

| 2022 – 2023 | **M.Sci. student supervision**, *École Normale Supérieure*, Paris, France |

- I had one Master's student (Caitlyn Jean Baptiste) who worked on extracting genomic information from the NCBI databases and applying a co-evolution model to the data
- I was a co-supervisor (minor supervisor)

University pedagogical education

| Apr 2019 | **Famelab Training Masterclass**, *Cheltenham Festivals and British Council*, Sofia, Bulgaria |

- As part of the cohort of FameLab finalists in Bulgaria in 2019, I attended a weekend-long master class on science communication

| 2010 – 2011 | **Video evaluation**, *University of California*, Davis |

- As part of my graduate studies I did a recorded lecture and got feedback on improving my teaching style (1 h lecture; 1 h feedback)

Pedagogical development and leadership work

| 2017 | **"R U BIO"**, *National Museum of Natural History*, Sofia, Bulgaria |

- See above; I developed the core concept and attempted to extend it to the Software University

Science communication

| 25 Dec 2020 | **Appearance on Bulgarian national TV** |

The scientific discoveries of 2020 (in Bulgarian)

| 28 Jul 2020 | **Invited speaker**, *ratio.bg web forum* |

Mathematical modeling (in Bulgarian); watch here

| 27 Sep 2019 | **Invited speaker**, *Natural History Museum*, London |

World Wide Webs: Science communication conference Hall of FameLab, winner first place

| 2018 – 2019 | **FameLab Science Communicator** |

National finalist in Bulgaria and invited to FameLab Hall of Fame in London.

| 31 Mar 2017 | **TV Interview**, *Bloomberg TV* |

Discussing the importance of data science for society