

Work Experience

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| 2020–current Solita Germany GmbH  Data Scientist & Data Engineer | | Germany  Germany |
| 2018–2020 | INNOSPOT GmbH  Data Engineer |

• Designed, developed, and maintained data processing pipelines

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| Dr. Vlas Sokolov Data Scientist   24 April 1991, Ukraine   Munich, Germany   [vlas.sokolov@mpg-alumni.de](mailto:vlas.sokolov@mpg-alumni.de)  (+49/0) 174 83 22 851 | • Led development of machine learning solutions in production environment• Developed and maintained cloud microservices, APIs, and CI/CD pipelines• Optimised performance on search and database components • Set up dedicated monitoring dashboards for cloud services • Conducted code reviews and supervised other team members | | |
| 2014–2018 | Max Planck Institute for Extraterrestrial Physics Doctoral Researcher | Germany |
| • Analysed astronomical maps of Galactic star forming regions | | |

Homepage: [vlas.dev](https://vlas.dev/)

GitHub profile: [vlas-sokolov](https://github.com/vlas-sokolov/)

Stack Overflow: [profile lin](https://stackoverflow.com/users/4118756?tab=profile)k

About me

I am a data scientist, data engineer, and a software developer with strong background in quantitative sciences. I enjoy tinkering with data processing, machine learning, statistical methods, and data visualization. With strong academical, analytical and   
programming backgrounds, I am keen to apply my skills to real-world   
datasets, using modern Python data analysis tools and cutting-edge   
numerical methods.

Skills

Python ML stack: Python, numpy, scipy, scikit-learn, nltk, pandas, matplotlib

Cloud infrastructure: AWS Lambda, S3, SQS, EC2, CloudWatch

Databases: NoSQL, MongoDB, Elastic-search, RDF, SPARQL, Redis

DevOps: CI/CD, git, Travis, Docker, Serverless

• Applied clean coding practices while routinely building data reduction pipelines for large astronomical imaging and spectral datasets  
• Actively contributed to open-source packages (pyspeckit, astropy, matplotlib)

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| Education Sep 2014 – Aug 2018 | Ludwig-Maximilians-Universität München Ph.D.; Astrophysics | Germany |
| Sep 2012 – Aug 2014 | National Tsing Hua University M.Sc.; Institute of Astronomy | Taiwan |
| Sep 2008 – Jul 2012 | National Chiao Tung University B.Sc.; Dept. of Electrophysics | Taiwan |

Portfolio  
• Grid-search optimization for initial values of gradient descent algorithm (Python, numpy; [GitHub link](https://github.com/vlas-sokolov/multicube))  
• Bayesian inference and model selection package for large spectroscopic datasets (Python, nested sampling, Open MPI; [GitHub link](https://github.com/vlas-sokolov/pyspecnest))  
• Co-author on a multivariate clustering method for astrophysical applications (Python; [GitHub link](https://github.com/jdhenshaw/acorns))  
• Co-author on a nonlinear regression package for astrophysical spectral lines (Python, [GitHub link](https://github.com/pyspeckit/pyspeckit))

Academic Expertise  
• Experience in independent academic research ([list of publications](https://orcid.org/0000-0002-5327-4289))• Talks at multiple domestic and international conferences

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| Languages | | | | • Years of hands-on expertise on modelling faint features in noisy datasets• Deep understanding of statistical methods and concepts • Capacity for independent analysis and self-reliant problem-solving skills | |
| Fluent: | | | English |
| Native: | Ukrainian, Russian | | |
| Certifcations & Online Courses |  |
| Intermediate: | | German, Chinese | | |  |  | | --- | --- | | 10 weeks 10 weeks 4 weeks | Computer Vision Nanodegree Intro to Machine Learning  Computing for Data Analysis | | (Udacity)  (Udacity)  (Coursera) |