# Grigorii Smirnov-Pinchukov
## Researcher and Data Scientist

Heinrich-Fuchs-Str 24
69126 Heidelberg
Germany

—

✉ smirngreg@gmail.com
📶 t.me/smirngreg
🌐 smirngreg.gitlab.io
📞 +49 173 9629806

—

## Skills

Python
■■■■■
Python data handling
(numpy, astropy, pandas)
■■■■■
Classical and bayesian
methods of regression
(curve fitting, mcmc)
■■■■■
Python data visualization
(matplotlib, seaborn,
plotly)
■■■■■
Git/GitLab/GitHub
■■■■□
Linux
■■■■□
Windows
■■■■□
Machine learning
(sklearn)
■■■□□
IDL
■■■■□
Jupyter
■■■■□
Fortran
■■■□□
SQL
■■■□□
C
■■□□□

—

# Curriculum Vitae

Data-driven researcher in an interdisciplinary field of astronomy, physics, and chemistry with eight years of experience in data collection, processing, visualization, and modeling. Looking for new challenges.

## Employment History

### Doctoral Researcher at Max Planck Institute for Astronomy

Sep 2018 – Dec 2022, Heidelberg

Conducted independent and group research in the field of astrochemistry. Developed scientific software using Python. Updated legacy FORTRAN 77/90 codes. Deployed and developed software for SLURM/MPI clusters. Wrote scientific papers for peer-reviewed journals and successful experiment proposals. Gave talks at international scientific conferences. Organized collaborations, group meetings, and Python meet-ups in the institute. Prepared a Dr. rer. nat. thesis (defense Dec. 2022).

### Guest Scientist at Max Planck Institute for Astronomy

Aug 2017 – Aug 2018, Heidelberg

Participated in research projects together with other scientists. Proposed an algorithm to more efficiently fit spectra of exoplanetary atmospheres.

### Specialist (Junior Researcher) at Lomonosov Moscow State University

Jan 2013 – May 2017, Moscow

Developed data analysis and visualization pipeline for astronomical observations using IDL programming language. Gave talks at international scientific conferences. Prepared a Specialist (Master) in Astronomy thesis. Got a stipend from Dmitry Zimin's "Dynasty" foundation for research achievements.

### Teacher at Lyceum "2nd School"

Sep 2012 – Aug 2013, Moscow

Ran astronomy club for high school students.

**Grigorii Smirnov-Pinchukov**

**Data Scientist**

—

Heinrich-Fuchs-Str 24
69126 Heidelberg
Germany

—

✉ smirngreg@gmail.com
✈ t.me/smirngreg
🌐 smirngreg.gitlab.io
📞 +49 173 9629806

—

## Languages

Russian (native)
English (fluent)
German (B1-B2)

## Education

### Specialist (Master) in Astronomy at Lomonosov Moscow State University (4.93/5.00)

Sep 2010 – Jan 2016, Moscow

Education in fields of Physics, Mathematics, Astronomy, Data analysis.

**Diploma with honors**. Prize for the thesis defense.

### High School Degree at Gymnasium N 1567

Jun 2010, Moscow

Major in physics, mathematics, computer sciences. Achievements in Olympiads in physics, mathematics, astronomy, and programming.

## Extra-curricular Activities

### Volunteer Teacher at "ЛЭШ" (Summer School for Ecology)

2010-2014, Russia

Taught mathematics, astronomy, and computing at an interdisciplinary summer school for highly motivated school students.

### Elected Student Representative

2011-2022, Lomonosov MSU and MPIA

Acted as a group representative and a contact person between the group and professors during the study at Lomonosov Moscow State University. Was elected as a representative to manage external funding while working at MPIA.

## Referees

**Prof. Dr. Dr. h.c. Thomas Henning**
henning@mpia.de
Managing Director
Max Planck Institute for Astronomy

**Ilya Kuksenok**
ikuksenok@nvidia.com
Senior Software Engineer
NVIDIA

**Dr. Dmitry Semenov**
semenov@mpia.de
Staff scientist
Max Planck Institute for Astronomy

Heidelberg, 19.06.2022

*Grigorii Smirnov-Pinchukov*