NEIGE FRANKEL

Max-Planck Institue for Astronomy Heidelberg, Germany
PhD student, frankel@mpia.de

EDUCATION

PhD Astrophysics, International Max Planck Research School, Heidelberg, Germany — Expected 2021

MSc degree of Astrophysics, Lund University, Sweden — 2017
100% courses passed with distinction

Bsc degree of Physics, Université Paul Sabatier, Toulouse, France — 2015
Passed with distinction, rank 3/47, best Bsc project

Scientific Baccalaureate Lycée Pierre d'Aragon, Muret, France — 2012
Passed with distinction

RESEARCH

Secular Evolution of the Milky Way Disk — 2017-21
PhD thesis Advisor: Prof. Hans-Walter Rix

Nucleosynthesis in accretion disks around black holes — 2016-17
Master thesis, Lund University, Sweden. Advisor: Prof. Melvyn B. Davies

Optimum scheduling for TTV measurements — Jun – Aug 2016
Summer Research Student position, Lund University, Sweden.
Advisor: Dr. Alexander J. Mustill

The effect of binary stars on the space velocity distribution of pulsars — Jan– May 2015
Internship, Lund University, Sweden. Advisor: Dr. Ross P. Church

TRAINING & SUMMER SCHOOLS

Heidelberg, Germany – *Gaia data & science summer school* — 2018
Flatiron institute, New York, USA – *Gaia Sprint* — 2018
Penn-State, USA – *Astrostatistics summer school* — 2018
Moletai Observatory, Lithuania – *Europlanet international research summer school* — 2017
Ecole Normale Superieure de Lyon, France – *Astrosim: Numerical Astrophysics* — 2017
University of Savoie, France – *Particle physics, gravitational waves, CERN* — 2016
Universities of Orsay and Saclay, Paris, France – *Astroparticle physics, cosmology* — 2015

GRANTS & SCHOLARSHIPS

IMPRS Scholarship Stipend — 2017
International Max-Planck Research School funding for 4 years of doctoral studies

Erasmus grant ≈ 3000 € — 2015
Erasmus agreement Toulouse-Lund signed under my initiation

Bourse au Merite ≈ 6000 € — 2012
Award for outstanding grades ($> 80/100$) in Baccalaureate exam

STUDENT SUPERVISION

BSc student Audrey Destarac co-supervised with Hans-Walter Rix — 2019
Project: Characterizing observational orbital signatures of black hole – star binaries

TECHNICAL STRENGTHS AND LANGUAGES

Computer Languages	Python (current project), C++ (MSc thesis), Matlab (courses)
Tools	Vim, Gedit, Latex, Gnuplot
Codes used	`BSE`, `TTVFast` (Projects)
	`RADMC`, `Zeltron`, `RAMSES` (1-day training each in 2017)
languages	French (native), English (C1), Swedish (A2)

LEADERSHIP AND SERVICE ACTIVITIES

Filmer, editor, publisher (employed) Heidelberg Joint Astronomical Colloquium 2017-19
Promote scientific studies High school annual talk, Lycee Pierre dAragon, France 2013-18
LOC Galdark meeting, Heidelberg, Germany 2017
Student ambassador in Astronomy Lund University, Sweden 2016-17
Volunteer at Kulturnatten (Culture Night) Lund, Sweden 2015-16
Founder & President of ALVA Astronomy Club Lund, Sweden 2015-16
Initiater and organiser at Lund University, Sweden: 2015-16
- Meeting MSc – PhD students: PhD experience and career
- Workshop with fellow MSc students: computing
- Workshop with fellow MSc students: statistics

Vice-president of UPS in Space Astronomy Club Toulouse University, France 2014
Student volunteer at annual INFOSUP exhibition Toulouse, France 2012-14
Maths & Physics tutor High-school, Muret, France 2012-14

TALKS & SEMINARS

Lund Observatory, whiteboard talk– *Evolution of galaxy disks: what the MW can do for you* 2019
Kloster Schontal , retreat– *How to make a Galaxy disk in three steps: the Milky Way* 2019
Shanghai, The life and times of the Milky Way – *Measuring radial migration in the MW disk* 2018
Besancon, APOGEE2 meeting – *Obtained direct measure of radial migration with APOGEE* 2018
Lund, 'The Dynamical Universe for All' – *What sets the radial structure of the Milky Way disk?* 2018
Heidelberg, seminar – *What sets the radial structure of the Milky Way disk?* 2018
Lund University, MSc defence – *Nucleosynthesis in accretion disks around balck holes* 2017
Toulouse, BSc Talks– *The effect of binaries on the velocity distribution of pulsars* 2015

REFEERED PUBLICATIONS

- **Frankel**, Sanders, Rix, Ting, Ness (2019), The Inside-out Growth of the Galactic Disk, ApJ
- Feuillet, **Frankel**, Lind, Frinchaboy, Garcia-Hernandez, Lane, Nitschelm, Roman-Lopez (2019), Spatial variations in the Milky Way disc metallicity-age relation, MNRAS
- **Frankel**, Rix, Ting, Ness, Hogg (2018), Measuring Radial Orbit Migration in the Galactic Disk, The Astrophysical Journal, 865, 2, 96.