Rutger van Haasteren

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A prize-winning PhD in Astrophysics / data analysis

9 years of research experience + 6 years of experience in data science and ML

Skills

•	Programming (C++, Python, OOP)	software packages pulsar data analysis
•	Bayesian analysis	pioneered Bayesian pulsar timing analysis
•	Monte Carlo / sampling methods	designed custom Monte Carlo Samplers
•	Statistics and probability theory	signal detection / (hypothesis-) tests
•	Machine/Deep learning	designed and implemented ML methods

Relevant Postdoc/Industry Experience

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08/2022 to <i>present</i>	Research Scientist	Albert Einstein Institute, Hannover, DE Analysis methods for pulsar timing				
05/2016 to 08/2021	Senior Data Scientist	Microsoft Corporation, Redmond, USA ML techniques for Petabyte-sized datasets				
09/2013 to 4/2016	Einstein fellow	NASA's JPL / Caltech Novel analysis methods for pulsar timing				
09/2011 to 08/2013	Postdoctoral fellow	Albert Einstein Institute, Hannover, DE Gravitational-wave detection with pulsars				
05/2011 to 08/2011	Research associate	Leiden Observatory, the Netherlands Developed time-series analysis techniques				
Education						

Education

05/2007 to 04/2011	PhD Astrophysics	Leiden University, the Netherlands
		Pioneered Bayesian pulsar data analysis
09/2001 to 04/2007	MSc. Theoretical	Leiden University, the Netherlands
	Physics	Focus: relativity and quantum computing

Prizes, awards, achievements

Einstein fellowship 2013	prestigious 3-year fellowship in Astrophysics
	(Selected 12 out of 187)
Hubble fellowship 2013 (declined)	prestigious 3-year fellowship in Astrophysics
	(Selected 18 out of 290)
GWIC thesis prize 2011	Gravitational Wave International Committee
	thesis prize 2011, for an outstanding original PhD
	thesis based on research in gravitational waves
Stefano Braccini prize 2011	honorable mention (2nd place) for a PhD thesis
	consisting of original techniques, laying out
	infrastructure for data analysis in pulsar timing

Additional information

- Extensive programming experience: made apps in BASIC/C++ since age 13
- Designed novel matrix decomposition algs & numerical integration schemes
- Passion for teaching