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Daniela Huppenkothen

Curriculum Vitae

Experience

Associate Director and DIRAC Fellow <i>DIRAC Institute, University of Washington, USA</i>	2017–present
Data Science Fellow <i>eScience Institute, University of Washington, USA</i>	2017–present
James Arthur Postdoctoral Fellow <i>Center for Cosmology and Particle Physics & Center for Data Science, New York University, USA</i>	2016–2017
Moore-Sloan Data Science Postdoctoral Fellow <i>Center for Data Science, New York University, USA</i>	2014–2017

Education

PhD Astronomy & Astrophysics <i>Anton Pannekoek Institute for Astronomy, University of Amsterdam, The Netherlands</i> Thesis: <i>A New Statistical Toolbox for Studying Variability in Fast Transients</i> Supervisors: Dr Anna Watts and Prof Michiel van der Klis	2010–2014
MSc Astronomy & Astrophysics <i>Anton Pannekoek Institute for Astronomy, University of Amsterdam, The Netherlands</i>	2008–2010
BSc Geosciences & Astrophysics <i>Jacobs University Bremen, Germany</i>	2005–2008

Publications

35 refereed; 10 non-refereed; 1 under review; List attached.

Presentations

16 invited, 28 colloquia and 13 contributed. List attached.

External Grants

Co-PI: Call for 7th and 8th Cambridge Astronomy Kavli Workshops <i>Astro Hack Week: Data Science for Next-Generation Astronomy</i> £15,000	2018
PI: NASA Astrophysics Data Analysis Program <i>Accurate Black Hole Spin Measurements with ABC</i> \$385,000	2017-present
Co-PI: Astro Hack Week Funding Proposal to Google Inc. <i>Astro Hack Week: Enabling Young Astronomers to Develop Data Science Skills</i> \$20,000	2017-2018
PI; Fermi Guest Investigator Program <i>Unravelling Solar Flare Variability with Fermi/GBM</i> \$55,000	2016

PI; LSSTC Enabling Science Program	2015
<i>Astro Hack Week: Enabling Young Astronomers to Develop Data Science Skills</i>	
\$5,000	
PI: Astro Hack Week Funding Proposal to GitHub Inc.	2015
<i>Astro Hack Week: Enabling Young Astronomers to Develop Data Science Skills</i>	
\$5,000	

Honours and Awards

Fellow of the International Astrostatistics Association	2019
Third prize, SciPy John Hunter Excellence in Plotting Contest	2018
HSP Huygens scholarship covering tuition and a living stipend	2008-2010
Scholarship awarded by “Studienstiftung des Deutschen Volkes” (German National Academic Foundation)	2005-2010
€200 per month for study-related expenses	
Merit-based scholarship awarded by Jacobs University Bremen	2005-2008
€7500 per year for tuition costs	
Member of “President’s List” (students with GPA better than 1.5)	2005-2008
Award of the Deutsche Physikalische Gesellschaft (German Society of Physicists) for best graduating student in physics	2005

Software

Stingray	
<i>Lead developer of open-source Python time series methods library for astronomy:</i>	
<i>http://github.com/StingraySoftware/stingray</i>	
Entrofy	
<i>Lead developer of open-source Python package for cohort selection:</i>	
<i>http://github.com/dhuppenkothen/entrofy</i>	
Magnetron	
<i>Bayesian Hierarchical Inference for X-ray light curves: http://ascl.net/1502.014</i>	
BayesPSD	
<i>Bayesian time series methods for detection of periodic signals:</i>	
<i>https://github.com/dhuppenkothen/BayesPSD</i>	

Teaching

Lectures

Advancing Theoretical Astrophysics Summer School	2019
<i>Interactive lectures on version control with Git, Bayesian inference, data visualization and machine learning</i>	
The Carpentries	2019
<i>Training in teaching methodology for Software Carpentry and Data Carpentry.</i>	
IESC Summer School: Analytics, Inference, and Computation in Cosmology: Advanced methods	2018
<i>Three interactive lectures on Bayesian hierarchical inference, probabilistic models and machine learning</i>	
Astro Hack Week	2014-2018
<i>Lectures on data visualization, exploratory data analysis, statistics to an audience of researchers at all academic ranks</i>	
LSST Data Science Fellowship Program	2017
<i>Two lectures on data visualization and interpretability of machine learning algorithms to an audience of graduate students</i>	

	IMPRS Heidelberg Summer School on Astrostatistics and Data Mining <i>Five lectures and three problem classes on Bayesian and frequentist statistics, counting statistics, time series analysis and Fourier methods to an audience of graduate students and postdocs</i>	2016
	Deutsche Schülerakademie <i>Ten-day course in astronomy for gifted high-school students</i>	2012
<i>Teaching Assistant Posts</i>	<ul style="list-style-type: none"> ● Accretion Flows (M.Sc. course), University of Amsterdam ● Astrophysics II (B.Sc. course), University of Amsterdam ● Introduction to Astronomy and Cosmology (B.Sc. course), University of Amsterdam ● Fluid Dynamics, (M.Sc. course), University of Amsterdam ● Geosciences and Astrophysics II (B.Sc. course), Jacobs University Bremen 	2008–2014
<i>Research Supervision</i>	Leah Fulmer, graduate student (University of Washington) <i>Project title: “Unsupervised Machine Learning for Irregularly Sampled Astronomical Time Series from the ZTF Survey”</i>	2018-present
	Margaret Lazzarini, graduate student (University of Washington) <i>Project title: “Accurate Black Hole Spin Measurements through ABC”</i>	2018-present
	Christina Lindberg, post-bacchalaurete student (University of Washington) <i>Project title: “Precise Measurements of Asteroid Periods using Gaussian Processes”</i>	2018-present
	Chris Ick, Fermi Guest Investigator Programme student (New York University) <i>Project title: “Unravelling Solar Flare Variability with Fermi/GBM”</i>	2017-present
	Himanshu Mishra, Google Summer of Code <i>Project title: “A Library of Time Series methods”</i>	2016
	Viviana Meerstra, BSc project (University of Amsterdam) <i>Project title: “Timing analysis of gamma-ray bursts using Bayesian statistics”</i>	2012
	Oliver Gurney-Champion, MSc project (University of Amsterdam) <i>Project title: “Modeling of the ionizing effects of black holes on their environment”</i>	2011
<i>Mentoring and Outreach</i>	Astronomy on Tap <i>How to Teach an AI to Study Black Holes</i>	2018
	NYAS Project <i>1000 Girls, 1000 Futures</i> : mentored a female high school student interested in the natural sciences	2016-2017
	Project <i>CyberMentor</i> : mentored two female high school students interested in the natural sciences	2011-2012
<i>Professional Development</i>	Leadership Academy, German Scholars Organization <i>Two 5-day intensive workshops on leadership and management practices</i>	2018-2019

Service to Profession

Scientific Advisory Committee, ASTRON, The Netherlands	2018-present
Chair, DIRAC Postdoctoral Fellows Hiring Committee	2017-present
Scientific Organizing Committee, Astro Hack Week (chair in 2015, 2017, and 2018) http://astrohackweek.org/2018/	2014-present
referee for Nature, ApJ, MNRAS, A&A	2013-present
Co-Chair, Advancing Theoretical Astrophysics Summer School	2019
Mini-Symposium Chair, SciPy https://scipy2018.scipy.org/	2018
Scientific Organizing Committee, Python in Astronomy http://openastronomy.org/pyastro/2018/	2017-2018
Program Committee, JupyterCon	2017
Organizer, NYU Center for Data Science Lunch Seminar Series	2016
Organizer, Journal Club at the Astronomical Institute of the University of Amsterdam	2013-2015
Local Organizing Committee, LOFT Science Meeting	2011
Local Organizing Committee, 2nd Summer School on Multiwavelength Astronomy, Amsterdam	2010

Daniela Huppenkothen

All Publications

Lead Author

Entropy Your Cohort: A Data Science Approach to Candidate Selection

Huppenkothen, D., McFee, B., Norén, L.; (submitted to PLOS One)

Stingray: A Modern Python Package for Spectral Timing

Huppenkothen, D. et al.; *Astrophys. J.* 881, 114 pp. (2019)

Stingray: A Modern Python Package for Spectral Timing

Huppenkothen, D. et al.; *Journal of Open Source Software* (2019)

Hack Weeks as a Model for Data Science Education and Collaboration

Huppenkothen, D. et al.; *Proceedings of the National Academy of Sciences* 115, 36 8872-8877 (2018)

On the Statistical Properties of Cospectra

Huppenkothen, D. & Bachetti, M.; *Astrophys. J. Sup.* 236 p.11pp (2018)

Exploring the Long-Term Evolution of GRS 1915+105

Huppenkothen, D. et al.; *Mon. Not. R. Astron. Soc.* 466 p.2364-2377. (2017)

Detection of Very Low-Frequency Quasi-Periodic Oscillations in the 2015 Outburst of V404 Cygni

Huppenkothen, D. et al.; *Astrophys. J.* 834 17 pp. (2017)

Dissecting magnetar variability with Bayesian hierarchical models

Huppenkothen, D. et al.; *Astrophys. J.* 810 22 pp. (2015)

Quasi-periodic Oscillations in Short Recurring Bursts of Magnetars SGR 1806-20 and SGR 1900+14 Observed with RXTE

Huppenkothen, D. et al.; *Astrophys. J.* 795 114 pp. (2014)

Intermittency and Lifetime of the 625 Hz Quasi-periodic Oscillation in the 2004 Hyperflare from the Magnetar SGR 1806-20 as Evidence for Magnetic Coupling between the Crust and the Core

Huppenkothen, D. et al.; *Astrophys. J.* 793 129 pp. (2014)

Quasi-Periodic Oscillations in the Short Recurring Bursts of the Soft Gamma Repeater J1550-5418

Huppenkothen, D. et al.; *Astrophys. J.* 787 128 pp. (2014)

Quasi-Periodic Oscillations and Broadband Variability in Short Magnetar Bursts

Huppenkothen, D. et al.; *Astrophys. J.* 768 87 pp. (2013)

- Discovery and Identification of MAXI J1621-501 as a Type I X-ray Burster with a Super-Orbital Period
Gorgone, N. et al.; including Huppenkothen, D.; *Accepted for publication in The Astrophysical Journal* (2019).
- The Zwicky Transient Facility: Science Objectives
Graham, M. et al.; including Huppenkothen, D.; *Publications of the Astronomical Society of the Pacific* 131 1001 (2019).
- Introducing Bayesian analysis with M&Ms: An active-learning exercise for undergraduates
Eadie, G.; Huppenkothen, D. et al.; *The Journal of Statistics Education* (2019).
- Physics and astrophysics of strong magnetic field systems with eXTP
Santangelo, A. et al; including Huppenkothen, D.; *Science China Physics, Mechanics & Astronomy* 62 2 (2019).
- The first tidal disruption flare in ZTF: from photometric selection to multi-wavelength characterization
van Velzen, S. et al.; incl. Huppenkothen, D. et al.; *Astrophys. J.* 82 2 (2019).
- The Zwicky Transient Facility: System Overview, Performance, and First Results
Bellm, E. et al.; incl. Huppenkothen, D. et al.; *Publications of the Astronomical Society of the Pacific* 131 995 (2019).
- NuStar Hard X-Ray View of Low-luminosity Active Galactic Nuclei: High-energy Cutoff and Truncated Thin Disk
Younes, G. et al.; incl. Huppenkothen, D. et al.; *Astrophys. J.* 870 2 (2019).
- Constraining the limiting brightness temperature and Doppler factors for the largest sample of radio bright blazars
Liodakis, I.; Hovatta, T.; Huppenkothen, D. et al.; *Astrophys. J.* 866 2 (2018).
- Detection of non-thermal X-ray emission in the lobes and jets of Cygnus A
de Vries, M.; Wise, M. W.; Huppenkothen, D. et al.; *Mon. Not. R. Astron. Soc.* 478 p.4010-4029 (2018).
- No Time for Dead Time: Use the Fourier Amplitude Differences to Normalize Dead-time-affected Periodograms
Bachetti, M. & Huppenkothen, D.; *Astrophys. J.* 853 6 pp. (2018)
- The rotational phase dependence of magnetar bursts
Elenbaas, C.; Watts, A.L.; Huppenkothen, D.; *Mon. Not. R. Astron. Soc.* 476 p.1271-1285 (2018)
- APO Time-resolved Color Photometry of Highly Elongated Interstellar Object 1I/'Oumuamua
Bolin, B. et al.; including Huppenkothen, D.; *Astrophys. J.* 852 10 pp. (2018)
- Magnetar giant flare high-energy emission
Elenbaas, C.; Huppenkothen, D. et al.; *Mon. Not. R. Astron. Soc.* 471 p.1856-1872 (2017)
- X-ray and radio observations of the magnetar SGR J1935+2154 during its 2014, 2015, and 2016 outbursts
Younes, G. et al, including Huppenkothen, D.; *Astrophys. J.* 847 15 pp. (2017)
- Burst and Outburst Characteristics of Magnetar 4U 0142+61
Gögüs, E. et al., including Huppenkothen, D.; *Astrophys. J.* 835 8 pp. (2017)
- Magnetar-like X-Ray Bursts from a Rotation-powered Pulsar, PSR J1119-6127
Gögüs, E. et al., including Huppenkothen, D.; *Astrophys. J. Letters* 829 7 pp. (2016)
- False periodicities in quasar time-domain surveys
Vaughan, S. et al., including Huppenkothen, D.; *Mon. Not. R. Astron. Soc.* 461 3145 pp. (2016)
- The wind nebula around magnetar Swift J1834.9-0846
Younes, G. et al., including Huppenkothen, D.; *Astrophys. J.* 824 12 pp. (2016)

- The Five Year Fermi/GBM Magnetar Burst Catalog
Collazzi, A.C. et al., including Huppenkothen, D.; *Astrophys. J. Sup.* 218 11 pp. (2015)
- Time Resolved Spectroscopy of SGR J1550-5418 for the Fermi/GBM Bursts
Younes, G. et al., including Huppenkothen, D.; *Astrophys. J.* 785 52 pp. (2014)
- The Outflow History of Two Herbig-Haro Jets in RCW 36: HH1042 and HH1043
Ellerbroek, A.M. et al., including Huppenkothen, D.; *Astron. Astrophys.* 551 A5 pp. (2013)
- Detection of Spectral Evolution in the Bursts Emitted During the 2008-2009 Active Episode of SGR J1550-5418
von Kienlin, A. et al., including Huppenkothen, D.; *Astrophys. J.* 755 150 pp. (2012)
- Using the X-ray Morphology of Young Supernova Remnants to Constrain Type, Ejecta Distribution and Chemical Mixing
Lopez, L.A. et al., including Huppenkothen, D.; *Astrophys. J.* 732 114 pp. (2011)
- Typing Supernova Remnants Using X-ray Line Emission Morphologies
Lopez, L.A. et al., including Huppenkothen, D.; *Astrophys. J.* 706 106 pp. (2009)

Non-refereed

- Sustaining Community-Driven Software for Astronomy in the 2020s
Tollerud, E. et al.; including Huppenkothen, D.; *Astro2020: Decadal Survey on Astronomy and Astrophysics, APC white papers; Bulletin of the American Astronomical Society* 51, 7 11 (2019)
- Training the Future Generation of Computational Researchers
Besla, G., Huppenkothen, D. et al.; *Astro2020: Decadal Survey on Astronomy and Astrophysics, APC white papers; Bulletin of the American Astronomical Society* 51, 7 11 (2019)
- The Next Decade of Astrodynamics and Astrostatistics
Siemiginowska. et al.; including Huppenkothen, D.; *Bulletin of the American Astronomical Society* 51, 3 355 (2019)
- STROBE-X: X-ray Timing and Spectroscopy on Dynamical Timescales from Microseconds to Years
Ray, P. et al.; including Huppenkothen, D.; *Probe class mission concept study report submitted to NASA for Astro2020 Decadal Survey* (2019)
- ZTF Bright Transient Survey Classifications
Graham, M.L. et al., including Huppenkothen, D.; *Astronomer's Telegram* 11745 (2018)
- The LOFT mission concept: a status update
Feroci, M et al., including Huppenkothen, D.; *Proceedings of the SPIE* 9905 20 pp. (2016)
- eXTP – enhanced X-ray Timing and Polarimetry Mission
Zhang, S.N. et al., including Huppenkothen, D.; *Proceedings of the SPIE* 9905 16 pp. (2016)
- Python in Astronomy 2016 Unproceedings
Robitaille, T. et al., including Huppenkothen, D.; DOI: 10.5281/zenodo.56793
- FERMI/Gamma-ray Burst Monitor upper limits assuming a magnetar origin for the repeating Fast Radio Burst source, FRB 121102
Younes, G. et al., including Huppenkothen, D.; *Astronomer's Telegram*, 8781
- New Methods for Timing Analysis of Transient Events, Applied to Fermi/GBM Magnetar Bursts
Huppenkothen, D. et al.; Proceedings of the 4th International Fermi Symposium, 2013, arXiv: 1303.1370

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Presentations

Invited

- Spectral Timing in the Era of Data Science: Bayesian Statistics and Machine Learning for Variability Studies 2019
The Future of X-ray Timing, Amsterdam, The Netherlands
- Data Science Challenges in Time Domain Astronomy: Building Methods, Tools and Communities 2019
The Annual Conference on Astronomical Data Analysis and Software Systems, Groningen, The Netherlands
- Astrophysical Inference in the Era of Machine Learning 2019
Inference for Multi-Messenger Astronomy, Berkeley, CA, USA
- Astronomy in the Age of Data Science 2018
NASA Science Mission Directorate Workshop on Maximizing the Scientific Return of NASA Data, Washington D.C., USA
- Hack Weeks as a Model for Data Science Education and Collaboration 2018
Keynote Presentation, Moore-Sloan Data Science Summit, Park City, UT, USA
- Bayesian Inference for X-ray Timing 2018
42nd COSPAR Scientific Assembly, Pasadena, CA, USA
- Data Science: Notes from an Emerging Field 2018
Open Questions in Astrophysics, Copenhagen, Denmark
- Machine Learning in the Age of Survey Astronomy 2018
XMM-Newton 2018 Science Workshop, Madrid, Spain
- From Asteroids to Black Holes: Data Science in Time Domain Astronomy 2018
University of Washington Data Science Summit, Seattle, WA, USA
- Classifying Black Hole States: Lessons Learned in Machine Learning 2018
231st Meeting of the American Astronomical Society
- The Whole is Greater than the Sum of its Parts: Better Inference Through Bayesian Hierarchical Modelling 2017
16th Meeting of the High-Energy Astrophysics Division of the American Astronomical Society
- Time Series Analysis for a Multiwavelength Future 2016
HAP Workshop: Monitoring the Non-Thermal Universe, Cochem, Germany
- Timing V404 Cygni during its 2015 outburst 2016
11th INTEGRAL Conference, Amsterdam, The Netherlands
- Ripples in a Stormy Sea: Quasi-Periodic Oscillations in the Fermi Gamma-Ray Burst Monitor 2015
6th International Fermi Symposium, Arlington, VA, USA
- Probing Neutron Star Physics with Quasi-Periodic Oscillations in Magnetar Bursts 2015
Spring Meeting of the American Physical Society, Baltimore, MD, USA
- Magnetars, QPOs and the Neutron Star Crust 2014
FUSTIPEN Topical Meeting "Structure of the neutron star crust: experimental and observational signatures", Caen, France

Data Science Challenges in Time Domain Astronomy: Building Methods, Tools and Communities <i>Colloquium, Albert Einstein Institute for Gravitational Physics, Hannover, Germany</i>	2019
Turning Data Into Knowledge: Data Science in Astronomy and Beyond <i>Colloquium, Anton Pannekoek Institute for Astronomy, University of Amsterdam, The Netherlands</i>	2019
Data Science Challenges in Time Domain Astronomy: Building Methods, Tools and Communities <i>Joint Steward/NOAO Colloquium, University of Arizona, AZ, USA</i>	2019
Astrophysical Inference with Complex, Stochastic Time Series <i>Colloquium, Center for Statistics and Machine Learning, Princeton University, NJ, USA</i>	2019
From Asteroids to Black Holes: Data Science for Next-Generation Time Domain Astronomy <i>Astronomy Seminar, Princeton University, NJ, USA</i>	2019
From Asteroids to Black Holes: Data Science for Next-Generation Time Domain Astronomy <i>Colloquium, Physics Department, Carnegie Mellon University, PA, USA</i>	2019
From Asteroids to Black Holes: Data Science for Next-Generation Time Domain Astronomy <i>Colloquium, Physics Department, University of Pittsburgh</i>	2019
From Asteroids to Black Holes: Data Science in Time-Domain Astronomy <i>Astronomy Seminar, University of Tübingen, Germany</i>	2019
From Asteroids to Black Holes: Data Science in Time-Domain Astronomy <i>Astronomy Colloquium, Pennsylvania State University</i>	2019
From Asteroids to Black Holes: Data Science in Time-Domain Astronomy <i>Astronomy Colloquium, University of Illinois at Urbana-Champaign</i>	2019
From Asteroids to Black Holes: Data Science in Astronomy <i>Computing PNNL Lecture Series, Pacific Northwest National Laboratory, Richland, WA</i>	2018
Fun Statistics with Fourier Spectra <i>Harvard-California Astrostatistics Collaboration Seminar, Center for Astronomy, Harvard University, USA</i>	2018
X-ray Astronomy in the Era of Data Science <i>Physics Colloquium, University of Delaware, USA</i>	2018
Data Science for X-ray Astronomy <i>Astronomy Colloquium, University of Washington, USA</i>	2017
Wrong But Useful: Statistics and Machine Learning for High-Energy Astrophysics <i>Physics Colloquium, Rheinisch-Technische Universität Aachen, Germany</i>	2017
How to Time a Black Hole: Time series Analysis for the Multi-Wavelength Future <i>Astronomy Seminar, Technical University Dortmund, Germany</i>	2017
Improving Candidate Selection for Academic Conferences and Beyond <i>Seminar at the European Space Research and Technology Centre (ESTEC), The Netherlands</i>	2017
Exploring the Long-Term Evolution of Black Holes with Machine Learning <i>Leiden Faculty colloquium</i>	2017
How to Time a Black Hole: Unravelling fundamental physics with X-ray variability <i>Chodera Lab Seminar, Memorial Sloan-Kettering Cancer Center, USA</i>	2017
How to Time a Black Hole: Time Series Analysis for the Multi-Wavelength Future <i>Astronomy Seminar, University of Würzburg, Germany</i>	2017
Why your field needs a hack week <i>BIDS Data Science Lecture Series, University of California Berkeley, USA</i>	2016

Exploring the Violent Universe: A Data Science Approach to X-ray Astronomy <i>The 4th Annual DC/VA/MD Summer Astrophysics Meeting, George Washington University, Washington, DC, USA</i>	2016
Timing Black Holes: Unravelling Fundamental Physics with X-ray Variability <i>Statistics colloquium, University of Auckland, New Zealand</i>	2016
Exploring the Violent Universe: A Data-Driven Approach to X-ray Astronomy <i>Physics colloquium, George Washington University, Washington, DC, USA</i>	2015
Are magnetar short bursts caused by star quakes? Using burst variability to constrain magnetar physics <i>HEAD lunch seminar, Center for Astrophysics, Harvard University, Cambridge, MA, USA</i>	2015
Unravelling Magnetar Variability: A data-driven approach to X-ray timing <i>Chandra X-ray Telescope Group, MIT, Cambridge, MA, USA</i>	2015
Searching the Haystack of Magnetar Bursts <i>SPIMAX Seminar, University of Oxford, Oxford, UK</i>	2014
A Zoo of Magnetar Bursts: Understanding Magnetar Variability <i>Monash University, Melbourne, Australia</i>	2013
Assessing the Impact of UV/X-ray Emission from Accreting Black Holes on the ISM <i>Colloquium, Dr. Karl Remis-Sternwarte Bamberg, Germany</i>	2010

Contributed

Hack Weeks as a Model for Data Science Education and Collaboration <i>2019 Symposium for Data Science and Statistics, Bellevue, WA, USA</i>	2019
Here Be Dragons: Effective (X-ray) Timing with the Cospectrum <i>231st Meeting of the American Astronomical Society, Washington DC, USA</i>	2018
Entropy your Cohort <i>Moore-Sloan Data Science Summit</i>	2017
Using Python to Study Black Holes <i>PyGotham 2016, New York, USA</i>	2016
Detection of Low-Frequency Quasi-Periodic Oscillations in the 2015 Outburst of V404 Cygni <i>15th Meeting of the High Energy Astrophysics Division of the American Astronomical Society, Naples, FL, USA</i>	2016
Entropy: Participant Selection Made Easy <i>Python in Astronomy 2016, University of Washington, Seattle, USA</i>	2016
Quasi-periodic Oscillations in V404 Cygni <i>Time Domain Astrophysics with Swift, Clemson, SC, USA</i>	2015
New Statistical Tools for Studying Variability in Transient Light Curves <i>Hot-Wiring the Transient Universe IV, Santa Barbara, CA, USA</i>	2015
New Methods To Understand Variability in Astrophysical Transients <i>Maximum Entropy and Bayesian Inference, Canberra, Australia</i>	2013
Timing Transients: New Methods To Understand Transient Variability <i>Astroinformatics 2013, Sydney, Australia</i>	2013
Timing Transients: Understanding Magnetar Variability <i>Explosive Transients, Lighthouses of the Universe, Santorini, Greece</i>	2013
Understanding Magnetar Variability: A Magnetar Burst Zoology <i>NS2013: Latest Results from the Neutron-Star Laboratory, Amsterdam, The Netherlands</i>	2013
New Methods for Timing Analysis of Transient Events <i>NOVA Network 3 Meeting, Nijmegen, The Netherlands</i>	2012
New Methods for Timing Analysis of Transient Events <i>4th International Fermi Symposium, Monterey, CA, USA</i>	2012

Daniela Huppenkothen

References

Prof Andrew Connolly

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Prof David Hogg

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Dr Iain Murray

Reader in Machine Learning

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