

# Alison M. W. Mitchell

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## Employment

01/10/2021 – present      DFG Emmy Noether Group Leader at ECAP, FAU Erlangen-Nuremberg  
01/01/2021 – 31/08/2021    Postdoc at the ETH Zurich  
01/08/2018 – 31/12/2020    Postdoc at the University of Zurich  
01/08/2016 – 31/07/2018    Postdoc at Max-Planck-Institut für Kernphysik, Heidelberg (33% employment)  
01/08/2016 – 31/07/2018    Assistant to the Project Scientist (Prof. J. Hinton) of the Cherenkov Telescope Array, CTAO gGmbH (67% employment)

## Education

01/09/2013–  
28/07/2016      PhD in Physics (Magna cum Laude), University of Heidelberg,  
Supervisor: Prof. Dr. W. Hofmann, Max-Planck-Institut für Kernphysik, Heidelberg  
Thesis Title: “*Optical Efficiency Calibration for Inhomogeneous IACT Arrays and a Detailed Study of the Highly Extended Pulsar Wind Nebula HESS J1825-137*”  
09/2008 – 07/2013    BSc MPhys (Hons) in Physics with First Class Honours, University of Warwick, UK

## Awarded Grants and Prizes

October 2021      DFG Emmy Noether Grant, Project Number 452934793, MI 2787/1-1  
Project title: “*Unveiling the Origin of Galactic Cosmic Rays: Exploring Pulsar Environments at the Highest Energies*”  
November 2020    Recipient of the H.E.S.S. Prize for “outstanding service contributions to the experiment”.  
November 2019    University of Zurich Travel Grant for a research visit to University of Adelaide, Australia

## Supervision

Oct. 2022 -      Two Master’s theses at FAU  
May 2022 –      PhD student T. Wach at FAU, funded by DFG  
April 2022 –      Postdoc Dr. S. Spencer at FAU, funded by DFG  
April 2022 –      Master’s thesis at FAU  
May 2022 – Sept/Oct 2022    Two Bachelor theses at FAU  
Spring 2020      Supervision of an undergraduate final degree project (Universidad de Cantabria)  
Autumn 2019      Supervision of Euroscholars exchange programme student  
“*Muon Calibration algorithms for the Cherenkov Telescope Array*”  
Summer 2019      Supervision of Swiss-European Mobility Programme student  
“*Predicting the future Pulsar Wind Nebula Population in the TeV Sky*”

## Teaching

Winter 22/23	Lecturer for <i>Methods of Data Analysis II</i>
10/10/2022	Research presentation for beginning Bachelor students (in German)
09//06/2022	Cover lecturer for <i>Methods of Data Analysis I</i>
Spring 2020	Lecturer for <i>Experimental Astroparticle Physics</i> : 4 out of 12 lectures
25/03/2020	Guest lecture for <i>Nuclear and Particle Physics II</i>
2018– 2019	Tutor for Physics III (modern physics) & physics lab for medicine students, UZH (in German)
2013– 2014	Tutor for undergraduate Introduction to Astrophysics I, Heidelberg (in German)

## Invited Talks

08/11/22	Haus der Astronomie - online public talk (in German) <a href="https://youtu.be/o88-8hLWbCw">https://youtu.be/o88-8hLWbCw</a>
July 2022	ECRS (European Cosmic Ray Symposium) - invited highlight talk
June 2022	EAS 2022 (European Astronomical Society), Valencia - invited review talk
01/06/2022	Physikalisches Kolloquium talk at FAU Erlangen-Nuremberg
05/05/2022	Invited seminar talk at TU Dortmund
March 2022	DPG Frühjahrstagung (virtual) - invited topical talk
July 2021	37 <sup>th</sup> International Cosmic Ray Conference (virtual / Berlin) - invited Gamma-Ray Indirect Rapporteur talk
January 2021	Astronomy Winter School, NCTS Taiwan (virtual) - highlight science talk
December 2020	1st Workshop on gamma-ray halos around pulsars (virtual / Europe) - invited talk and SOC member
November 2020	CTA-Oz meeting (Sydney / virtual) - invited talk
June 2020	EAS 2020 (European Astronomical Society) virtual conference (Leiden) - invited talk
November 2019	CTA Linkages Meeting, Adelaide - invited talk
2019	Three invited seminar talks
2017	Two invited seminar talks

## Other Activities

2022	Co-organiser of Galactic science sessions at RICAP-22
since 2021	Reviewer for Astronomy & Astrophysics journal
2021-2022	Coordinator of the CTA “Analysis & Simulations Working Group” (Deputy in 2021)
since 2020	Member of SWGO collaboration and Co-leader of the SWGO Galactic science task force
2020-2021	Co-ordinator of a HESS task force (“Day Shifts”) - observation data quality monitoring
since 2020	Co-ordinator of a CTA task group (“Instrument Response Functions”)
since 2020	Reviewer for Astroparticle Physics journal
2019-2020	Organiser of Experimental Particle and Astroparticle Physics Seminar, University of Zurich
since 2016	Contact person for target of opportunity observations of classical novae within H.E.S.S.
2019	Scientific Secretary for the CTA “Small Sized Telescope Harmonisation Review” panel
2018	Internal Reviewer for a CTA technical publication on calibration
2017– 2018	Organiser of four workshops on CTA requirements
Since 2013	Member of the H.E.S.S. collaboration
Since 2014	Member of the CTA consortium

**Programming:** Good knowledge of C/C++ and python

**Languages:** English - native, German - fluent, French - basic