

Alison M. W. Mitchell

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Employment

01/01/2021 – present Postdoc at the ETH Zürich
01/08/2018 – 31/12/2020 Postdoc at the University of Zürich (full time)
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

Prizes and Awards

November 2020 Recipient of the H.E.S.S. Prize for “outstanding service contributions to the experiment”.

Teaching and Supervision

2020 Supervision of an undergraduate final degree project (Universidad de Cantabria)
2019 Supervision of Euroscholars exchange programme student
 “*Muon Calibration algorithms for the Cherenkov Telescope Array*”
2019 Supervision of Swiss-European Mobility Programme student
 “*Predicting the future Pulsar Wind Nebula Population in the TeV Sky*”
2020 Lecturer for *Experimental Astroparticle Physics*: 4 out of 12 lectures
25/03/2020 Guest lecture for *Nuclear and Particle Physics II*
2018– 2019 Tutor for Physics III (modern physics) & physics laboratory for medicine students, Zurich
2013– 2014 Tutor for undergraduate Introduction to Astrophysics I, Heidelberg

Seminar Talks

21/10/2019 Invited Talk at EPFL, Lausanne
30/08/2019 Invited Talk at DESY, Zeuthen
21/01/2019 Invited Talk at Institut d’Astrophysique de Paris (IAP)
12/11/2018 & 29/11/2017 Seminar Talks at University of Zurich (UZH)
23/02/2017 Invited Talk at MSSL, University College London (UCL)

Reviewed Competitive Conference Contributions, Grants and Proposals

December 2019	TeVPA 2019 (TeV Particle Astrophysics), Sydney two oral contributions, one poster contribution
July 2019	36 th ICRC (International Cosmic Ray Conference) - poster contribution
2019	Travel Grant from University Zurich for a research visit to University of Adelaide, Australia
2018	Observation proposal (for 2019) accepted by the H.E.S.S. experiment
July 2017	35 th ICRC (International Cosmic Ray Conference) - oral contribution
July 2016	6 th International Symposium on Gamma-ray Astrophysics, Heidelberg poster contribution
2015	Observation proposal (for 2016) accepted by the H.E.S.S. experiment
August 2015	34 th ICRC (International Cosmic Ray Conference) - poster contribution
March 2014	DPG Frühjahrstagung (German Physics Society Spring Conference Particle Physics division) in Mainz - oral contribution

Attendance at Other Conferences and Schools

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 member of the scientific organising committee
November 2020	CTA-Oz meeting (Sydney / virtual) - invited talk
June 2020	EAS 2020 (European Astronomical Society) virtual conference (Leiden) invited oral contribution
November 2019	CTA Linkages Meeting, Adelaide - invited talk
October 2018	ISAPP School “LHC meets Cosmic Rays” at CERN - poster contribution
March 2016	2 nd MERCUR Winter School, Physikzentrum Bad Honnef
February 2015	HGSFP (Heidelberg Graduate School of Fundamental Physics) Winter School poster contribution
September 2013	IMPRS Summer School in High Energy Astrophysics

Other Activities

2021	Deputy coordinator of the CTA “Analysis & Simulations Working Group”
since 2020	Member of SWGO collaboration and Co-leader of the SWGO Galactic science task force
since 2020	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
since 2019	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