

Anna T. P. SCHAUER

PERSONAL DATA

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WORK EXPERIENCE

<i>Current</i> OCTOBER 2018	NHFP Hubble Fellow University of Texas at Austin , Austin, United States of America Scientific advisor: Volker BROMM
SEPTEMBER 2018 DECEMBER 2017	Transitional PostDoc in ASTRONOMY Zentrum für Astronomie, Institute of Theoretical Astrophysics , Heidelberg, Germany
APRIL 2014 JANUARY 2014	Research Experience Institute for Astronomy , Honolulu, Hawai'i Working with Roberto MÉNDEZ on planetary nebulae in NGC 4244
DECEMBER 2012 SEPTEMBER 2012	Working Student Max-Planck-Institute for Extraterrestrial Physics , Garching, Germany Working with Stefan GILLESSEN on the Instrumentation of GRAVITY

EDUCATION

OCTOBER 2017	PhD student in ASTRONOMY Final Grade: magna cum laude
OCTOBER 2014	Zentrum für Astronomie, Institute of Theoretical Astrophysics , Heidelberg, Germany <i>Delaying the formation of the first stars: The impact of streaming velocities and Lyman-Werner radiation in cosmological hydrodynamical simulations</i> Advisors: Ralf KLESSEN and Simon GLOVER
AUGUST 2014	Master of Science in PHYSICS Final Grade: 1.2
MAY 2012	Ludwig-Maximilians-Universität , Munich, Germany <i>The Mystery of the σ-bump – a new Signature for Major Mergers?</i> Advisor: Andreas BURKERT
AUGUST 2014	Master of Science in ASTROPHYSICS Final Grade: 1.2
MAY 2012	Ludwig-Maximilians-Universität , Munich, Germany <i>Tracing the Kinematics of Galaxies - Planetary Nebulae in NGC 4244</i> Advisor: Andreas BURKERT
FEBRUARY 2011	Exchange Student in PHYSICS
SEPTEMBER 2010	École Polytechnique Fédérale de Lausanne , Lausanne, Suisse
APRIL 2012	Bachelor of Science in PHYSICS Final Grade: 1.8
OCTOBER 2008	Ludwig-Maximilians-Universität , Munich, Germany <i>Cosmological Perturbations</i> Advisor: Viatcheslav MUKHANOV
JUNE 2008	Abitur Final Grade: 1.1
SEPTEMBER 2000	Karls gymnasium München-Pasing (high school), Munich, Germany skipping grade 11

SELECTED TALKS

SEPTEMBER 2019	Colloquium at Cardiff University, UK Title: “ Minihaloes - the formation sites of the first stars ”
SEPTEMBER 2019	Conference “Extremely Big Eyes on the Early Universe” Rome, Italy Contributed Talk: “ Constraining first star formation with 21 cm Cosmology ”
AUGUST 2019	Seminar for REU students UT Austin, Texas Talk: “ Studying and pursuing a PhD in Europe ”
DECEMBER 2018	Conference “Stellar Archaeology as a Time Machine to the First Stars” Tokyo, Japan Invited Opening Talk: “ The formation of the first stars ”

- JULY 2018 APEC Seminar at IPMU Tokyo, Japan
Invited Seminars in Kyoto and Kobe, Japan
Title: **“First star formation with streaming velocities and Lyman-Werner radiation”**
- FEBRUARY 2018 ITC Seminar at Harvard, Boston
Talk: **“The influence of streaming velocities on the formation of the first stars and black holes”**
- FEBRUARY 2018 Conference “Cosmological Signals from Cosmic Dawn to the Present”
Aspen, Colorado
Contributed talk: **“The influence of streaming velocities on the formation of the first stars ”**
- OCTOBER 2017 Theoretical Astrophysics Seminar at the University of Zurich, Switzerland
Title: **“The influence of streaming velocities on the formation of the first stars and black holes”**
- JUNE 2017 Conference “Francesco’s Legacy: Star Formation in Space and Time”
Florence, Italy
Contributed talk: **“Delaying the formation of the first stars”**
- APRIL 2017 Group retreat of Andi Burkert: “CAST Outing”
Allgäu, Germany
Invited with a talk: **“The first stars & news from the σ -bump”**
- FEBRUARY 2017 Conference “The Physics of the ISM: 6 years of ISM-SPP 1573: what have we learned?”
Cologne, Germany
Contributed talk: **“Lyman-Werner escape fractions from the first galaxies”**
- AUGUST 2016 “First Stars V”
Heidelberg, Germany
Contributed talk: **“Lyman-Werner UV escape fractions from primordial haloes and galaxies”**
- MARCH 2016 Conference “The Reionization Epoch: New Insights and Future Prospects”
Aspen, Colorado
Contributed talk: **“Lyman-Werner Escape Fractions from Primordial Haloes and Early Galaxies”**
- DECEMBER 2015 Conference “Cosmology and First Light”
Paris, France
Contributed talk: **“Lyman-Werner UV Escape Fractions from Primordial Haloes”**
- JUNE 2015 Conference “First stars, galaxies, and black holes”
Groningen, the Neatherlands
Contributed Talk: **“Lyman-Werner Escape Fractions from Primordial Haloes”**
- Current*
SUMMER 2013 Various talks in seminars and group meetings
Austin, Heidelberg, Munich, Garching, Japan, Harvard

EXTERNAL FUNDING AND HONOURS

- FALL 2018 **NHFP Hubble Fellowship** awarded for three years
Project *Minihaloes - Formation Sites of the First Stars*
taken to the University of Texas at Austin
- SPRING 2019 **AURA Future Leader**
Invited to the annual AURA meeting as a junior “future leader”
Tucson, Arizona
- SPRING 2018 **CITA Fellowship** awarded for three years
declined
- SPRING 2018 **Government of Ireland Postdoctoral Fellowship** awarded for two
years
declined
- AUGUST 2017 **18.8 million CPUh** awarded on **SuperMUC**
Project *Delaying first star formation*
- MARCH 2014 Scholarship of the **Max Weber-Program of the State of Bavaria**
OKTOBER 2008 Bavarian Elite Aid Act: scholarship for highly-gifted students
- SPRING 2014 **PROSA-LMU (DAAD)-scholarship**
Project on *planetary nebulae* at the **Institute for Astronomy, Hawai'i**
- FALL 2010 **ERASMUS-scholarship** for studying abroad in **Lausanne**

CO-SUPERVISION OF STUDENTS

- Current* *REU student* Lauren HIGGINS at UT Austin
SUMMER 2019 **Summer project** on the cosmic near infrared background in the context of
21 cm radiation
Co-supervision with Volker BROMM
- Current* *Master student* Maik DRUSCHKE
Master thesis on the influence of streaming velocities on the spin parameter
in minihaloes
FALL 2016 **Bachelor thesis** on statistical properties of minihaloes
Co-supervision with Ralf KLESSEN and Simon GLOVER
- FALL 2018 *Bachelor student* Kaj KRAMER
SPRING 2018 **Bachelor thesis** on merger trees from simulations at high redshifts
Co-supervision with Mattis MAGG, Ralf KLESSEN and Simon GLOVER
- SUMMER 2018 *Master student* Mattis MAGG
FALL 2017 **Master thesis** on metal mixing from Population III supernovae
Co-supervision with Ralf KLESSEN and Simon GLOVER

TEACHING, COURSES AND RELATED ACTIVITIES

- Current* Referee for **MNRAS** and **JCAP**
- FALL 2019 **SOC and LOC** of Bashfest 2019, Austin, TX
Organization of conference on New Horizons in Astronomy
- SUMMER 2019 **Co-chair and SOC** at EWASS 2019, Lyon, France
Organization of 2-day symposium S3 “The first billion years of the Universe”
- SPRING Referee for **NSPIRES**
- SPRING 2019 **Guest lecturer** at the Computational Astrophysics School, Austin, TX
Lecturing about numerical simulations and my research on first stars to undergraduates
- SPRING 2019 **Guest lecturer** for Astronomy 307, Austin, TX
Substituting for Caitlin CASEY
- SUMMER 2018 Organization of the **High-z journal club**
SPRING 2018 Weekly ArXiv session on recent publications on the high-redshift Universe, together with Simon GLOVER
- SUMMER 2015 **Teaching assistant**
Universität Heidelberg, Germany
Astronomie und Astrophysik II lectured by Matthias BARTELMANN
- FALL 2017 **Student representative** of the 10th IMPRS generation
FALL 2014 Organization of two IMPRS-retreats, member of the IMPRS board
- FALL 2014 **Organization of the student meeting** at the Institute of Theoretical Astrophysics, Heidelberg
Talks from students for students about coding, presentations and posters
- SUMMER 2010 **Organization of the Optics-pizza seminar** at the LMU Munich
One day seminar for students, introducing them to possible bachelor thesis projects in optics
- SPRING 2010 **Organization of “Listen to your Prof!”** at the LMU Munich
Two day talk series for bachelor and master students in math, physics and computer science, connecting them with professors from various research groups
- AUGUST 2011 **Teaching assistant for Lab Courses** in Experimental Physics
OCTOBER 2009 Ludwig-Maximilians-Universität, Munich, Germany
Each year for 3-4 months