

DR. THALES A. GUTCHE  
Post-doctoral fellow

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Born on March 11, 1988 in Bodrum, Turkey  
Citizenship: USA & Germany

## EDUCATION

- 2014 - 2018      PhD in Astrophysics, Max Planck Institute for Astronomy  
*Magna cum laude, The quenching of star formation in galaxies*  
Advisors: Prof. Dr. Andrea Macciò & Prof. Dr. Hans-Walter Rix
- 2011 - 2014      MSc Physics, Max Planck Institute for Astronomy  
*The AGN luminosity - star formation rate correlation*  
Advisors: Prof. Dr. Andrea Macciò & Dr. Nikolaos Fanidakis
- 2008 - 2011      BSc Physics, Ruprecht-Karls-Universität, Heidelberg, Germany  
*Echelle Spectrograph for a 70cm Cassegrain telescope*  
Advisors: Prof. Dr. Andreas Quirrenbach & Prof. Dr. Christian Schwab

## PROFESSIONAL EXPERIENCE

- 2018 - present      Post-doctoral fellow, Max Planck Institute for Astrophysics, Garching
- May - Nov 2018      Post-doctoral associate, Max Planck Institute for Astronomy, Heidelberg
- 2016 - 2018      Four one-month research visits to Andrea Macciò, NYU, Abu Dhabi
- 2014 - 2018      PhD in Astrophysics, Max Planck Institute for Astronomy, Heidelberg
- 2014      Scientific employee, Landessternwarte Königstuhl

## GRANTS & FELLOWSHIPS

- 2018 - 2020      18 MCPUh at Max Planck Computing and Data Facility (MPCDF)
- 2018      MPA fellowship
- 2018      CCA/CfA joint post-doctoral fellowship (declined)
- 2017      German Academic Exchange Service (DAAD) grant to host a summer intern
- 2014      IMPRS fellowship (International Max Planck Research School)
- 2014      PhD grant from the German Research Council (DFG, SFB 881, A1)

## OBSERVING EXPERIENCE

- 2020      Co-I on proposal 105.208F.001, ESO-VLT/MUSE, 19.0 h awarded
- 2019      Co-I on proposal 0104.A-0812(A), ESO-VLT/MUSE, 19.0 h awarded
- 2018      Co-I on proposal 0103.A-0415(A), ESO-VLT/MUSE, 29.0 h awarded
- 2017      Co-I on proposal 0102.A-0428(A), ESO-VLT/MUSE, 29.0 h awarded
- 2017      16 nights observing at La Silla, ESO

## TEACHING EXPERIENCE

- June - Aug 2017      “DAAD RISE Germany” supervisor for Rokas Žemaitis (MSc student)
- 2015      Advanced physics lab instructor, University of Heidelberg (master level)
- 2014      Undergraduate physics lab instructor, Heidelberg (bachelor level)

## SERVICE

- 2018 - present      Referee/reviewer for MNRAS, ANR, DiRAC
- Oct 2019 - present      Galaxy Journal Club Coordinator (MPA)

Oct 2019	Public talk on Dark Matter Day (MPA)
April 2017	Public talk at Science March, Heidelberg
2017	Equal Opportunity Officer (MPIA)
June 2014 - Mar 2016	Graduate student Representative (MPIA)
June 2015	Public talk at Open House Day (MPIA)

## CONFERENCES & SELECTED TALKS

Nov 2020	Galaxy Theory Group Meeting, MPIA, Heidelberg (online)
Sep 2020	Galaxy & Cosmology Seminar, ITC/CfA, Harvard (online)
April 2020	Galaxies & Simulations Workshop, MPA (online)
Jan 2020	Virgo Meeting, ICC, Durham
Nov 2019	Selected talk at Fachbeirat, MPA, Garching
Oct 2019	Galaxy Journal Club, MPA Garching
Oct 2019	CGM, Harnack Haus, Berlin
Sept 2019	ISM with ALMA, University of Bologna, Italy
June 2019	Feedback in Galaxies, Spetses, Greece
June 2019	Zooming in on Star Formation, Nafplio, Greece
May 2019	Institute Seminar, MPA Garching
Jan 2019	Galaxy Journal Club, MPA Garching
Dec 2018	Virgo Meeting, Lortenz Center, Leiden
Mar 2018	Computational Galaxy Formation, Ringberg Castle
Jan 2018	Special Seminar, MPA Garching
Oct 2017	Gas in Galaxy Dynamics Conference, Malta
April 2017	MPIA Galaxy Coffee, Heidelberg
April 2017	SFB 881 "The Milky Way System" Retreat, Kloster Schöntal, Germany
Jan 2017	ESO Vitacura TMT, Santiago, Chile
Dec 2016	ITA Blackboard Colloquium, University of Heidelberg
July 2016	Santa Cruz Workshop on Galaxy Formation
May 2016	Galaxy and Cosmology Retreat, Kloster Schönberg
Mar 2015	Unveiling the AGN - Galaxy Connection, Puerto Varas, Chile
July 2014	Quenching and Quiescence Conference, MPIA, Germany
June 2014	MPA - MPIA Workshop on Galaxy Formation
May 2014	From Dark Matter to Galaxies, Xi'an, China

## SCHOOLS & INTERNSHIPS

Aug 2020	Parallel Programming with MPI/OpenMP, ETH Zurich
Sept 2016	11th Heidelberg Summer School on Astrostatistics & Data Mining
Jan 2016	HGSFP Winterschool, Obergurgl, Austria
Sept 2015	Astro Hack Week, New York University
Aug 2013	Adaptive Optics Summer School, University of California, Santa Cruz
April 2012	Calibration and integration of the Yale Doppler Diagnostic Facility, Yale University

## LANGUAGES

English	Native speaker
German	Native speaker
French	Intermediate (CEFR Level B2)
Italian	Reading proficiency

## COMPUTER SKILLS

Languages	Python, C/C++, HTML, Arduino IDE
Codes & Software	AREPO (moving mesh), Gasoline (SPH), MPI/OpenMP, Pynbody, galfit, SUNRISE (radiative transfer), CLOUDY (spectral synthesis), ZEMAX (ray tracing), SolidWorks, LaTeX