

DR. THALES A. GUTCKE  
NASA Hubble fellow

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ORCID:0000-0001-6179-7701  
Born on March 11, 1988 in Bodrum, Turkey  
Citizenship: USA & Germany

## ACADEMIC POSITIONS

2021 - 2024	Hubble fellow, Princeton University
2024 - 2026	Lyman Spitzer, Jr. fellow, Princeton University
2018 - 2021	Independent fellow, Max Planck Institute for Astrophysics, Garching
2018	Postdoctoral researcher, Max Planck Institute for Astronomy, Heidelberg
2016 - 2018	Visiting scholar, New York University Abu Dhabi

## EDUCATION

2018	Max Planck Institute for Astronomy, PhD in Astrophysics, magna cum laude
2014	Max Planck Institute for Astronomy, M.S. in Physics
2011	University of Heidelberg, B.S. in Physics

INTERESTS	What forms of feedback regulate star formation in galaxies? Under what conditions do baryons alter the dark matter distribution? Where is the boundary between star clusters and dwarf galaxies? What is the chemical composition and morphology of the interstellar medium? Promoting diversity and equal opportunity in astronomy and in life
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REFERENCES	Prof. Eve Ostriker (current adviser) - eco@astro.princeton.edu Prof. Volker Springel (former postdoc adviser) - volker@mpa-garching.mpg.de Prof. Andrea Macciò (PhD adviser) - maccio@nyu.edu
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## GRANTS & FELLOWSHIPS

2022	Princeton Scientific Writing Fellowship
2021	NASA Hubble Fellowship
2021	Lyman Spitzer, Jr. Fellowship, Princeton
2021 - 2023	40 M c/hrs at Leibniz Supercomputing Center (LRZ)
2018 - 2021	20 M c/hrs at Max Planck Computing and Data Facility (MPCDF)
2018	MPA independent research fellowship
2018	CCA/CfA joint postdoctoral fellowship (declined)
2017	German Academic Exchange Service (DAAD) grant to host a student
2014	International Max Planck Research School (IMPRS) fellowship
2014	PhD grant from the German Research Council (DFG, SFB 881, A1)

## COLLABORATIONS

2021 - present	Project lead for flagship program “LYRA”, Virgo Consortium
2021 - present	PI of Leibniz Center/SuperMUC computing time proposal (40 M c/hrs awarded)
2020	Co-I on DiRAC computing time proposal (30 M c/hrs awarded)

## OBSERVING EXPERIENCE

2017 - present	Co-I on 4 ESO-VLT/MUSE proposals (> 100 h awarded)
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2017 16 nights observing at ESO La Silla, Chile

#### ADVISING & MENTORING

2021 - present Co-supervisor of MPA graduate student Jessica May Hislop  
2020 - 2021 Co-supervisor of MPE graduate student Alejandra Fresco  
2017 “DAAD RISE Germany” supervisor for Rokas Žemaitis  
2015 M.S. physics instructor, University of Heidelberg  
2014 B.S. physics instructor, University of Heidelberg

#### SELECTED SERVICE ACTIVITIES

2022 NASA Community College Network “subject matter expert”  
2021 “Future Leader” at AURA annual meeting  
2020 - present Reviewer for ANR and DiRAC computing proposals  
2018 - present Referee for MNRAS  
2019 - 2021 Journal Club Coordinator (MPA)  
2017 Equal Opportunity Officer (MPIA)  
2014 - 2016 Graduate student representative (MPIA)

#### SELECTED TALKS & OUTREACH

Nov 2021 Bahcall Lunch Talk, Princeton  
May 2021 ICRAR/UWA Seminar, Australia  
March 2021 Stellar Evolution and Feedback, Lorentz Center, The Netherlands  
Sep 2020 Galaxy & Cosmology Seminar, ITC/CfA, Harvard, USA  
Jan 2020 Virgo Meeting, ICC, Durham, UK  
Oct 2019 CGM, Harnack Haus, Berlin, Germany  
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  
Dec 2018 Virgo Meeting, Lorentz Center, Leiden, The Netherlands  
Oct 2017 Gas in Galaxy Dynamics Conference, Malta  
Jan 2017 ESO Vitacura TMT, Santiago, Chile  
Dec 2016 ITA Blackboard Colloquium, Heidelberg, Germany  
July 2016 Santa Cruz Workshop on Galaxy Formation, USA  
Mar 2015 Unveiling the AGN - Galaxy Connection, Puerto Varas, Chile  
July 2014 Quenching and Quiescence Conference, MPIA, Germany  
May 2014 From Dark Matter to Galaxies, Xi’an, China  
2016 - present Frequent public speaker, including Dark Matter Day, MPIA open house day and Science March

#### 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

#### OTHER SKILLS

Languages English (native), German (native), French (interm.), Italian (interm.)  
Coding Languages Python, C/C++, HTML, Arduino IDE  
Codes & Software AREPO, Gasoline, MPI/OpenMP, Pynbody, galfit, SUNRISE, CLOUDY, ZEMAX, SolidWorks, LaTeX