DR. THALES A. GUTCKE NASA Hubble fellow

University of Hawaiʻi Institute for Astronomy 640 N A'ohōkū Place, Hilo, HI, 96720 gutcke@hawaii.edu thalesada.github.io ORCID:0000-0001-6179-7701 Born on March 11, 1988 in Bodrum, Turkey Citizenship: USA & Germany

ACADEMIC POSITIONS

2022 - 2024 2021 - 2022 2018 - 2021 2018 2016 - 2018 EDUCATION	Hubble fellow, University of Hawai'i at Mānoa Hubble fellow, Princeton University Independent fellow, Max Planck Institute for Ast Postdoctoral researcher, Max Planck Institute fo Visiting scholar, New York University Abu Dhab	r Astronomy, Heidelberg
2018 2014 2011	Max Planck Institute for Astronomy, PhD in Ast Max Planck Institute for Astronomy, M.S. in Ph University of Heidelberg, B.S. in Physics	1
Interests	What forms of feedback regulate star formation is Under what conditions do baryons alter the dark Where is the boundary between star clusters and What is the chemical composition and morpholo Promoting diversity and equal opportunity in as	x matter distribution? I dwarf galaxies? gy of the interstellar medium?
REFERENCES	Prof. Volker Springel (collaborator) Prof. Andrea Macciò (PhD adviser) Prof. Carlos Frenk (collaborator) Dr. Thorsten Naab (collaborator) Prof. Romain Teyssier (collaborator)	volker@mpa-garching.mpg.de maccio@nyu.edu c.s.frenk@durham.ac.uk naab@mpa-garching.mpg.de teyssier@princeton.edu

Grants & Fellowships

2022	Princeton Scientific Writing Fellowship (includes 1 semester salary)
2021	NASA Hubble Fellowship (3 years)
2021	Lyman Spitzer, Jr. Fellowship, Princeton (declined)
2021 - 2023	40 million core hours (equivalent to >\$1.6 million in funding)
	at Leibniz Supercomputing Center (LRZ), Germany
2018 - 2021	20 million core hours (equivalent to >\$800 000 in funding)
	at Max Planck Computing and Data Facility (MPCDF)
2018	MPA independent research fellowship (3 years)
2018	CCA/CfA joint postdoctoral fellowship (declined)
2017	Funding to host 12-week summer student (equivalent to REU)
	from German Academic Exchange Service (DAAD)
2014	International Max Planck Research School (IMPRS) fellowship
2014	Full graduate scholarship (4 years) from German Research Council
	Collaborative Research Center "The Milky Way" (DFG, SFB 881, A1)

Collaborations

2022 - present	Member of All Sky Automated Survey for SuperNovae (ASAS-SN) collaboration
2021 - present	PI of LYRA computing allocation (Leibniz Center/SuperMUC-NG, 40 M c/hrs)
2020 - 2021	Co-I of Virgo computing allocation (DiRAC/COSMA, 30 M c/hrs)
2020 - present	Project lead for flagship program "LYRA", Virgo Consortium

2014 - 2018 Member of NIHAO simulations collaboration

Observing experience

2022	PI on GEMINI-N proposal	, 1.7 hours awarded

TEACHING & MENTORING

2023	Taught select lectures, $ASTR~260$ - Computational Physics & Astronomy
	University of Hawai'i at Hilo
2022	Graduate course, Proposal Writing for Quantitative Disciplines, Princeton
2022	Pedagogy in Practice, teaching workshop, Princeton
2021 - 2022	Co-advisor of graduate student Jessica May Hislop, MPA
2020 - 2021	Co-advisor of graduate student Alejandra Fresco, MPA
2017	Mentored REU student Rokas Žemaitis, MPIA
2015	M.S. physics lab instructor, University of Heidelberg
2014	B.S. physics lab instructor, University of Heidelberg

SERVICE ACTIVITIES

2022	Volunteer at 'Imiloa Astronomy Outreach Center, Hilo, Hawai'i
2022 - present	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)

INVITED TALKS & OUTREACH

Apr 2023	Königstuhl Colloquium, Max Planck Institute for Astronomy, Heidelberg (planned)
Nov 2022	Colloquium, Department of Astronomy, Ohio State University, USA
May 2022	Theory Seminar, Canadian Institute for Theoretical Astrophysics, Toronto, Canada
Apr 2022	TAC Seminar, Theoretical Astrophysics Center, UC Berkeley, USA
Mar 2022	Joint Astrophysical Colloquium, INAF - University of Bologna, Italy
Feb 2022	Joint Colloquium, Steward Observatory/NSF's NOIRLab, Tucson, USA
Feb 2022	IfA Colloquium, Institute for Astronomy, University of Hawai'i, Mānoa, USA
May 2021	Seminar, ICRAR/UWA, Australia
Mar 2021	Lorentz Center Workshop, Leiden, The Netherlands
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++, MPI/OpenMP,HTML, Arduino IDE

Codes & Software AREPO, Gasoline, CLOUDY, ZEMAX, SolidWorks, galfit, SUNRISE