

Dr. Tobias Beuchert

SCIENCE COMMUNICATOR

My vocation is to progressively build and solidify bridges between science and society. Present and future challenges are global and complex. In my eyes, our society can develop solutions, if scientists follow a collaborative and interdisciplinary route and if citizens can be supported in understanding the scientific process and thus be empowered in trusting science.

Professional Career

Science Manager / Communicator

Since 10/2021

- Deutsches Zentrum für Luft- und Raumfahrt (DLR), EOC, Oberpfaffenhofen and Technische Universität München (TUM): Departments for Datascience in Earth Observations

Science Communicator & Presenter

09/2019 – 08/2021

- ESO Supernova Planetarium & Visitor Center, Garching bei München

Post-Doc (Interdisciplinary Astrophysics)

11/2017 – 11/2019

- Anton Pannekoek Institute for Astronomy, Univ. Amsterdam
- Observational & theoretical astrophysics of black-hole environments

PhD Student (Astrophysics)

12/2013 – 06/2017

- Title: *Multiwavelength Observations of Active Galactic Nuclei*
- Dr. Remeis Observatory & ECAP, Univ. Erlangen-Nürnberg; Institut für Theoretische Physik und Astrophysik, Univ. Würzburg

Education

Master of Science (Astrophysics)

03/2013

Public/Media Relations & Communications

International Organization “Astronomers for Planet Earth”

Since 2020

- Operations & Strategy, PR, (Social) Media, Webinar postproduction
- Organizational goals: knowledge transfer & communication of solutions to climate crisis; sustainable solutions for astronomical research and institutes

The Science of Science Communication

Since 2020

- Author of the chapter “Open Science Communication & Responsible Citizens” for “EPS Grand Challenges: Physics for Society 2050” (European Physical Society)

Education and Communication in a Museum and Planetarium

Since 2019

- Development and delivery of bilingual planetarium shows and guided tours for a broad range of target audiences
- Conception of innovative bridges between science and society
- Development of the (virtual) educational offerings; production of short videos on astronomy: script, filming, technical realization (lighting, audio, camera), post-production; Social Media: SEO, content, marketing, promotion
- Strategy work, supervision of volunteers




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 Date of Birth: 04.03.1986
Nationality: German, Hungarian
Marital status: unmarried

Languages

 German (mother tongue)


 English

 Hungarian (mother tongue)


 Dutch

Skills

 Science Communication (speech & writing)

 Scientific thinking, interdisciplinary context

 Fundraising

 Becoming acquainted with new science fields

 Analytic problem solving

 Creativity

 Responsibility & leadership

 Teamwork & Coordination

 Project management

Science Journalism

Since 2018

- Article “Global urban mapping using AI in Earth Observations”, UrbanAI online blog (04/2022)
- Articles for popular science magazines: “Amsterdam Science” (12/2019); GEO and Springer (negotiations)
- Blog Posts

Public Relations & Media

Since 2015

- Public talks, lectures, Science-Slams, interviews, and TV appearance in Germany and The Netherlands

Coordination and Lead of Outreach Projects

2016–2017

- Several projects on design & science (HM, Univ. Würzburg)
- Event “Die Register des Universums”, 09/2022

Organization of Conferences and Meetings

European Astronomical Society Conference 2021, virtual

07/2021

- Social-media coordinator (Twitter)
- Organizing Committee: special session “Astronomy for Planet Earth”

AstroEDU Conference (Education in Astronomy)

09/2019

- Local Organizing Committee

Meetings astron. institutes Univ. Erlangen-Nürnberg / Würzburg

06/2015, 09/2014, 07/2014

- Local & Science Organizing Committee

Scientific Expertise

International Research Projects

- Leadership, coordination & collaboration

Specific Experience

- Identifying innovative problems & analytic, solution-oriented approaches
- Interdisciplinary research, theory and empiric, Big-Picture science
- High amount of flexibility and resilience
- Handling large amounts of (complex) data

Funding and data proposals

- Observation-time proposals: ground-based and space-born observatories
- Funding proposals in Germany (Feodor-Lynen, Humboldt Foundation) and The Netherlands (Veni, rating A/A+)

Innovation & progressivity

Taking initiative & pioneering

Leading with empathy

Inspiring people

Sustainability & Change

Societal relevance of science

Meaningful work

Teamwork

Interdisciplinarity

Participation

Diversity

EDV

Digital Communication & Social Media

Video & Audio Production/Editing for virtual engagement (kdenlive, audacity)

Programming- und Scripting languages (C, C++, Python, Fortran, Bash, L^AT_EX, HTML)

OS (Linux, Mac, Windows)

Office (Calc/Excel, Write/Word, Impress/Powerpoint)

Graphics (Inkscape, Gimp, Adobe Suite)

Education and Teaching

Museum Education

Since 2019

Education work at the “ESO Supernova” Planetarium and Visitor Center

Trans-disciplinary Lecture

02/2019

“*The Evolution of Complexity in the Universe*”, part of the lecture series “Big History”

- Inter / trans-disciplinary lectures
- Topics: from the formation of the Universe until the Anthropocene, future issues and sustainable development

Supervision of Students (summer projects, Master theses, PhD theses)

2016, 2017 – 2018

Juror final Presentation of Master Theses

06/2018

Supervision of Mobile Masterclass

2014 – 2017

Target audience: secondary school; topic: (Astro)particle physics; extent: experimental projects

Supervision Astronomical Lab Course

2010 – 2017

Lecture Assistant: “*Radiative Processes in Astrophysics*” (MSc)

2014

Lecture Assistant: “*Experimentalphysik II - Elektrodynamik und magnetische Felder*” (BSc)

2011

Work with University Departments

Co-Organizer Supervision Training

04/2019

Institute for Gravitational Physics & Astrophysics, Univ. Amsterdam; target audience: Post-Docs

Organizer and Chair of regular Post-Doc Meetings

12/2018 – 11/2019

Institute for Gravitational and Astrophysics, Univ. Amsterdam

Co-Organizer of faculty-wide Seminars

11/2018 – 11/2019

Science Park, Univ. Amsterdam; Encouraging interdisciplinary projects and perspectives “out of the box”

Representative of University’s “Mittelbau”

10/2013 – 10/2017

Attendance of regular meetings of the department of physics, Univ. Erlangen-Nürnberg

Member Selection Panels

2015, 02/2019

- RISE summer students in collaboration with Universities in the United States
- “Summer-School” in theoretical physics, promoting diversity and inclusion, prioritizing underprivileged students; Univ. Amsterdam in collaboration with leading international institutes

Trainings and Seminars

Podcastproduction and Social Media, NaWik

04, 07/2022

Self-Management, TUM

04/2022

Lectures for Future (Hochschule München)

2020/21

Psychological Safety (ESO)

10/2020

Film Production (Blue Fire Films)

07/2020

We Don't Have Time: Climate Conference

04/2020

Webinars on systemic change & the climate crisis (Intl. Sc. Council)

04/2021

Presenting in Planetaria (ESO)

02/2020

Conflict Management & Fair Treatment (ESO)

09/2019 & 11/2019

“Authentic You”: Training on Leadership and Presentation Training for Scientists, Stralia, Den Haag

06/2019

Supervision Training

06/2019

Educational Training Centre, FNWI, Univ. Amsterdam

Time Management Training and Intervision

11/2018, 02/2019

Anne Baker Consultancy via Univ. Amsterdam

Workshop “Networking for Career Orientation”

10/2018

Harry Linders: Trainer and Consultant via Univ. Amsterdam

Lecture on Atmospheric Sciences, Geo-sciences, and Climate Change

06/2018

Earth Science Department, Univ. Amsterdam

Several Career-Oriented Trainings (u.a. Univ. Amsterdam, Univ. Leiden)

2018

Networking; Personal Qualities; Elevator-Pitch Training

Individual Career Training, Univ. Amsterdam

03/2018

Online Lecture (edX) on “Embedded Systems”

05/2014

Software und Hardware Applications, Univ. of Texas at Austin

“Didactic and Presenting for Tutors”

04/2011

Seminar “Leaders for Tomorrow”

03/2009

Topic: “Open Innovation – The World is our Lab”, Siemens AG (Erlangen)

“Talent Academy”, Siemens AG

2004

Conferences (selection)

K3 Congress on Climate Communication, virtual

09/2022

Future of Science Communication 2.0 & Wisskon22

05 & 06/2022

Future of Science Communication, virtual & Ecsite, virtual)

06/2021

Communicating Astronomy with the Public, virtual

05/2021

GDP Tagung, virtual

06/2021

We Don't Have Time: Klimakonferenz und Webinare zur Klimakommunikation, virtual

04/2020

Voluntary Work

Sustainability Working Group of the European Astronomical Society: member of the Operational Board

2020 – 2021

Scientists for Future, member of the Regional Hub Munich

Since 2020

“Skype a Scientist” / “Ring a Scientist” (Presenter)

Since 2020

Changemaker Roundtable Munich

Since 2019

Astronomers for Planet Earth

Since 2019

Founding member, member of the operational board

European Southern Observatory

2019 – 2021

Member of the Environmental Protection Group; Co-Author of the internal communication plan on sustainability efforts and the climate

Bergwaldprojekt e.V.

Since 2015

Renaturation work, supervised by foresters and scientists for sustainable development, Germany-wide

Further Activities and Interests

Memberships

GDP (Gesellschaft Deutschsprachiger Planetarien)

DPG (Deutsche Physikalische Gesellschaft)

IAU (International Astronomical Union)

EAS (European Astronomical Society)

AG (Astronomische Gesellschaft)

Bergwaldprojekt e.V.

DAV (Deutscher Alpenverein)

Private Activities and Interests

Sports climbing & Mountaineering

Diverse Outdoor activities (hiking, bike-packing)

Arts, Design & Culture