

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.

My webpage contains links to my PR & media products.

Professional Career

Science Communicator & Presenter

Since 09/2019

- 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. Reemis Observatory & ECAP, Univ. Erlangen-Nürnberg; Institut für Theoretische Physik und Astrophysik, Univ. Würzburg

Education

Master of Science (Astrophysics)

03/2013

Abitur

05/2006

Public/Media Relations & Communications

Operations & PR for “Astronomers for Planet Earth”

Since 2020

- International organization; more than 1000 professional astronomers
- Goals: knowledge transfer & communication of solutions to climate crisis; sustainable solutions for astronomical research and institutes
- Interdisciplinary webinars including geo- and planetary sciences

The Science of Science Communication

Since 2020

- Co-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


- Close collaboration with the communications department of the European Southern Observatory
- Development and delivery of bilingual planetarium shows and guided tours for a broad range of target audiences
- Development and production of the virtual educational offerings; Social-Media
- Conception of innovative bridges between science and society
- Supervision of volunteers

 Tobias Beuchert
Leibnizstr. 24A
80686 München

 +49 (0) 176 313 69 442 (mobil)

 info@tobiasbeuchert.com
tobias.beuchert@eso.org

 www.tobiasbeuchert.com

 Geburtsdatum: 04.03.1986
Nationalität: deutsch, ungarisch
Familienstand: ledig

Languages

 German (mother tongue)

 English

 Hungarian (mother tongue)

 Dutch

 Spanish

Skills

Science Communication (speech & writing)

Scientific thinking, interdisciplinary context

Becoming acquainted with new science fields

Analytic problem solving

Creativity

Responsibility & leadership

Teamwork & Coordination

Project management

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Science Journalism

Since 2018

- Articles for popular science magazines: “Amsterdam Science” (12/2019); GEO und Springer (negotiations)
- Blog Posts

Public Relations & Media

Since 2015

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

Outreach Projects

2016–2017

- Coordination and supervision of projects on design & science

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+)

Values

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

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

06/2019

Stralia, Den Haag

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-Orientation 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"

2004

Topic: "Fundamental Polymers", Siemens AG

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Voluntary Work

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

Since 2020

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

Since 2019

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

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