

## Bridging Perspectives and Nonlinear Learning Pathways Schedule

### Talks

#### Monday 09h00-10h30 - Bridging Perspectives: Art and Science in Collaboration

09h00: Brief introduction & housekeeping by Ulrike Kuchner, Soheb Mehdi, Jenni French (Bridging Perspectives) & Lucinda Offer, Kevin Walsh (Non-Linear Pathways)

09h03: Creating Knowledge and Practice Together: Boundary work in ArtScience collaboration (Ulrike Kuchner)

09h18: Astronomy and Poetry – Developing a Conversation. (Invited) (Shirley Harding.)

09h33: From Science to Fiction and Back (Solmaz Farhang)

09h49: The Metabolic Guide To Space Survival - Art & Science collaboration towards building yeast-based life support systems for space missions (Invited) (Kristina Pulejkova)

10h03: Emerging practices in Art and Science using AI (Liz Dowthwaite)

10h18 Two-minute Flash Talks (Stefano Ciprini, Hannah Middleton, Soheb Mandhai, Rose Shepherd, Elizabeth Stanway)

#### Lunch Session - Bridging Perspectives: Art and Science in Collaboration

~ For our lunch session, we envision a more interactive session, which is geared towards more informal and non-traditional presentations: hands-on demonstrations, ArtScience artwork presentations, tools, and open conversation around findings.

#### *(i) Demonstrations:*

~ here we invited the applicants to demonstrate their tools and works that are related to visualization and sonification of data, including through digital tools and AI as an opportunity for NAM participants to learn and engage directly in this topic hands-on ~

Initial Visual Ideas in High-Energy Gamma-ray Astrophysics Communication and Outreach (Stefano Ciprini)

Exploring the Universe through science, sound, story-telling and digital art (Rose Shepherd)

Blending Science into 3D Visualisations (Soheb Mandhai)

*(ii) Artwork discussions:*

~ here we envision the artists bring an artwork (or a reproduction/artefact) and use it as a prompt to speak about their work. We are imagining this less as a standard talk and more as a gallery-style walkthrough, where participants encounter the work directly and pause in front of it while the artist introduces it, offering background, context, and reflections on your practice in dialogue with the piece itself. We think this could work well as a more situated, conversational format — closer to how one might experience an exhibition, rather than a linear presentation ~

Solar Tree – A Collaborative Interdisciplinary Journey (Invited) (Pauline Woolley)

Art in Space Exploration: Why this Essential Quality of Humanity Must Follow Us into Space (Invited) (Lisa Pettibone)

Gravitational Waves, in and out of Pools (Leon Trimble)

Bringing Exoplanet Research to Art Venues (Amaury Triaud)

*(iii) Gallery-style screen with recordings:*

~ Here, we envision showing a small selection of short presentations (~5 min) on loop on a screen; in a gallery-like setting with headphones and a few chairs in front of them. This would also be a nice format for sharing ArtScience practice in a more reflective, visual way ~

Inviting Cosmic Perspectives in Light Polluted Places (Invited) (Louise Beer)

A high schooler's attempt to analyse the link between British arts/popular culture and astrophysics. (Invited) (Emile Zana)

Exploring the Use of Science Fiction in Astronomical Outreach (Elizabeth Stanway)

The Flowering Desert Opera (Infinite Opera & Amaury Triaud)

**Monday 14h15-15h45 - Bridging Perspectives: Art and Science in Collaboration**

14h15: Bringing Worlds into Relation: Art, Anthropology, and the Study of Space (Lauren Reid)

14h30: Sounding the spheres: live music as the fieldwork of theoretical physics (Anna Clock / Clifford)

14h45: Gravitational Waves, in and out of Pools (Invited) (Leon Trimble)

15h00: Post-terrestrial artists (Barbara Brownie)

15h15: Art in Space Exploration: Why this Essential Quality of Humanity Must Follow Us into Space (Lisa Pettibone)

15h30: First Contact: Artistic Responses to the Harvard Plate Stacks (Julie F Hill)

### **Monday 16h15-17h45 – joint session of Bridging Perspectives: Art and Science in Collaboration & Non-Linear Pathways**

16h15: This is not for you: Access to Astronomy Reimagined (Dan Pye)

16h30: Using Art to Nurture Scientific Skills (Invited) (Gareth Campbell)

16h45: Aurora Art Workshops & 'Seren and the polar bear cub' children's fiction book (Sadie Jones )

17h00: Could Girlguiding Members Be the Next Space Explorers? (Jenni French)

17h15: The Pragmatic Demonstration of the Consilience model in Community Science Engagement (Invited) (Nic Smith)

17h30: From Coffee Shops to the Cosmos: A Lived Experience Perspective on Access to Astronomy (Tibby Finn Leeming)

### **Posters**

- Exploring the Use of Science Fiction in Astronomical Outreach (Elizabeth Stanway)
- QTechEdu: An Interactive Learning Environment for Quantum Physics with Applications in Astronomy and Beyond (Mehdi Adrien Ayouz)
- Initial Visual Ideas in High-Energy Gamma-ray Astrophysics Communication and Outreach (Stefano Ciprini)
- Interdisciplinary approaches to teaching and public engagement: Animation and Physics working together. (Ian Whittaker)
- Emerging practices in Art and Science using AI (Invited) (Liz Dowthwaite)
- A high schooler's attempt to analyse the link between British arts/popular culture and astrophysics. (Invited) (Online) (Emile Zana)

- From Stardust to Story: Poetry, Manga, and the Art of Making Science Feel Human (Online) (Sreenandan K J )
- Gravitational waves as you never straw them before: from harvest-time to space-time! (Hannah Middleton)