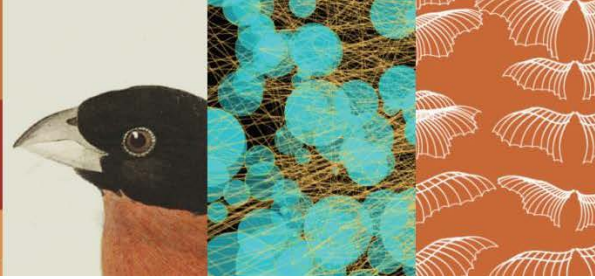




Arthur M. Sackler

COLLOQUIA  
OF THE NATIONAL ACADEMY OF SCIENCES



**//// Role/Play: Collaborative Creativity and Creative Collaborations  
Student Fellows Symposium  
March 12, 2018**

National Academy of Sciences  
2101 Constitution Avenue, NW; Washington, D.C. 20418

Organized by: Ben Shneiderman (Chair), Liese Liann Zahabi and Molly Morin  
Supported by the Arthur M. Sackler Foundation for the Arts, Sciences and Humanities  
and Google, Inc.

<http://www.nasonline.org/Sackler-Creativity-Collaboration>

*Our ambition is to redirect the history of ideas, restoring the Leonardo-like close linkage between art/design and science/engineering/medicine. We believe that internet-enabled collaborations can make more people more creative more of the time.*

**AGENDA**

**Sunday March 11, 2018**

7:00 PM Welcome Reception, St. Gregory Hotel

**Monday March 12, 2018**

8:00 AM Registration, National Academy of Sciences

8:30 AM Welcome Talk: Liese Zahabi, Ben Shneiderman

9:00 AM Panel #1 (15 minute talks)

Ellie Irons: *The Environmental Performance Agency: Social-Ecological Art and Public Fieldwork in the (so-called) Anthropocene* (Rensselaer Polytechnic Institute)

Treva Michelle Pullen: *Queer Ecology and Feminist Readings of BioArt* (Concordia University, Montreal, Canada)

Janet Panoch: *Translating Videos to Interactive Role-Play Video Simulations for High School Health Classes: Teens Inform PACE-talk – The Game* (IUPUI)

Payam Aminpour: *Agent-Based Modeling & Fuzzy Cognitive Mapping: an exploration in knowledge transfer and mental models evolution in multi-disciplinary groups* (Michigan State University)

10:00 AM Break

10:15 AM Cy Keener, University of Maryland and Jennifer Jacobs, Stanford University

11:00 AM PechuKucha Sessions #1 (6 minute talks)

Asi Ahmed: *A Stage Reborn (ASR) community theatre* (University of California, Santa Barbara)

Saleh Ahmed: *Bringing Science to the Society: A Creative Collaboration to Promote Climate Awareness in Coastal Bangladesh* (The University of Arizona)

Fernando Becerra: *Astrollytelling: Astronomy through visual stories* (Harvard)

Elisa A. Bonnin: *Cascadia: An Interactive Climate Change Story* (University of Washington)

Joanne Cheung: *The Echo Chamber* (Harvard Graduate School of Design)

John Desnoyers-Stewart: *Designing Expressive Mixed Reality Interfaces through Practice-Based Research* (University of Regina, Canada)

Yelena Gluzman: *Analyzing the Analyst: A reflexive, experimental approach to thinking theater and cognitive neuroscience together* (University of California, San Diego)

Jeff Gregorio: *DrumHenge* (Drexel University)

Adam Haar Horowitz: *Interaction During Sleep for expanded creativity* (MIT Media Lab)

Anna Henson: *AR/VR/MR, Body, My Body* (Carnegie Mellon University)

12:00 PM Lunch and Lecture

Molly Morin, Weber State University

1:15 PM Panel #2 (15 min talks)

Justin Dowdel: *The Seen and Unseen in Data Visuality: Computational Aesthetics and Cybernetic Collaboration* (Rensselaer Polytechnic Institute)

Madison Elliot: *Experimental methodologies for vision scientists and visualization experts: innovation through collaboration* (University of British Columbia)

Loan Tran and Kelly Park: *Chromatic Structure and Family Resemblance in Large Art Collections— Exemplary Quantification and Visualizations* (University of Texas at Dallas)

David Rosen: *Brain-states for Increased Creative Performance: Jazz Improvisation, Expertise, EEG, and Flow* (Drexel University)

2:15 PM Break

2:30 PM Panel #4 (15 min talks)

Sharath Chandra Ram: *Listening Machines - New interfaces for Art-Science and Technology Policy* (University of Texas at Dallas)

William Weibe: *Public Data, Satellite Images, Surveillance* (School of the Art Institute of Chicago)

Maria Michails: *Bridging the Gap: Artist-Scientist community-engaged air quality sensing* (Rensselaer Polytechnic Institute)

3:15 PM Break

3:30 PM Panel #4 (15 min talks)

Jonathan Dinu: *Qu'est-ce que c'est: An Exploration of Symbiotic Digital Assistant Relationships* (Carnegie Mellon University)

Jeff Ens: *A tool for artists to Access AI* (Simon Fraser University, British Columbia, Canada)

Jifei Ou: *Responsive Nanomaterials/Programmable Materials: Biologic, Cilia* (MIT Media Lab)

Iliza Butera: *Music For Cochlear Implants* (Vanderbilt University)

4:45 PM      PechaKucha Session #2 (6 minute talks)

Michal Luria: *Social Robots as a Sidekick Model* (Carnegie Mellon University)

Peter Marting: *Forest of the Glowing Symbionts and Azteca Ants* (Arizona State University)

Kieran Murphy + Xinyi Zhu: *Randomness and Mind Games in Virtual Reality* (Physics, University of Chicago, and Film, Video, New Media and Animation, School of the Art Institute of Chicago)

Gabi Schaffzin: *Quantified Self and multimodal interrogation* (University of California, San Diego)

Laura Scherling: *Blockchain Technologies In Community-based Arts and Visual Arts Education: Implications for Fair Use and Changing Practices* (Teachers College, Columbia University)

João Silveira: *Art, Artist and Artistic Interaction with Science* (Federal University of Rio de Janeiro, Harvard Research Fellow and researcher at ArtSciLab, UT Dallas)

Akshita Sivakumar: *Performative Experiment: An Embodied Training* (University of California, San Diego)

Nikki Stevens: *Inclusivity in Data Lifecycles* (Arizona State University)

Emily Jane Rosen + Michelle Min: *Proprioceptive feedback in education* (University of California, Berkeley)

Jiayue Cecilia Wu: *Promoting Minority Cultures through Multimedia Arts Collaboration* (University of California, Santa Barbara)

5:45 PM      Reception / Poster Session/Creative Exhibition

Venkatesh Balasubramanian: *Mathematical Modeling and Music Composition* (Binghamton University, NY)

Guillermo Bernal: *Creative Exhibition of video: VR Avatars, Emotional Beasts* (MIT Media Lab)

Elisa Bonnin: *Cascadia: An Interactive Climate Change Story [also a 6 min talk]* (University of Washington)

Jacklyn Brickman: *Spellbreaker: a tree/human interrelationship* (The Ohio State University, MFA)

Kyle Diederich: *Collaborative Approach to Designing Educational Technologies for Children Under 5* (The University of Iowa)

Angela Gao: *Comparing the Effectiveness and Engagement of Comics to 3D Animation in Teaching Advancements in Nanomedicine* (University of Illinois at Chicago)

Andi Hess: *Using Interdisciplinary Translation for More Effective Team Science* (Arizona State University)

Mac Hill: *Developing a Visual Language for Uncertainty in Data Journalism* (North Carolina State University, College of Design)

Garrett Johnson: *Responsive Media and Semantically Shallow Computation: Ascending from the Depths of Computational Complexity* (Arizona State University)

Kathleen McDermott: *Absurdist Electronics: Design Explorations of the Cyborg Clown and the Alienated Body* (Rensselaer Polytechnic Institute)

Kieran Murphy + Xinyi Zhu: *Randomness and Mind Games in Virtual Reality* [also a 6 min talk] (Physics, University of Chicago, and Film, Video, New Media and Animation, School of the Art Institute of Chicago)

Thomas Murray: *The Right of Way: Ethnographic Drama Influencing Engineering and Public Policy* (Virginia Tech)

Kelly Park: *Semiotics of Pain* (The University of Texas at Dallas)

Keith Ranaldi: *The Game of Food* (Virginia Commonwealth University)

Nina Sakhnini: *Walking the talk: Generating memory cues to help people with dementia in everyday conversations* (University of Illinois at Chicago)

Nazmus Saquib: *Reimagining Early-Childhood Classrooms* (MIT)

Kira Street: *Crochet Forms and Architecture* (University of Texas at Austin)

Gina Takaoka: *Data Mine // Mine Data: Poetic Visualizations of Forgotten Spaces* (University of Maryland, College Park)

Amy Wetsch: *Sculpture and the body's immune system* (Maryland Institute College of Art)

7:00 PM      Dinner, Great Hall

### **Tuesday, March 13, 2018**

9:00 AM – 7:00 PM Arthur M. Sackler Colloquium *Creativity & Collaboration: Revisiting Cybernetic Serendipity* (see colloquium agenda)

### **Wednesday, March 14, 2018**

9:00 AM – 5:00 PM Arthur M. Sackler Colloquium *Creativity & Collaboration: Revisiting Cybernetic Serendipity* (see colloquium agenda)