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, Cillia (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)