

MOCO2019: INTERNATIONAL CONFERENCE ON MOVEMENT AND COMPUTING

PROGRAM AUTHORS KEYWORDS

PROGRAM

Days: [Thursday, October 10th](#) [Friday, October 11th](#)
[Saturday, October 12th](#)

Thursday, October 10th

View this program: [with abstracts](#) [session overview](#) [talk overview](#)

11:30-16:30 REGISTRATION OPEN

Registration Table open - Day 1

12:00-14:45 Session 1: Doctoral Graduate Consortium

CHAIR: [Garrett Laroy Johnson](#)

LOCATION: [Stauffer B, B125](#)

12:00 [Félix Bigand](#), [Elise Prigent](#) and [Annelies Braffort](#)
Retrieving Human Traits From Gesture In Sign Language : The Example Of Gestural Identity
([abstract](#))

12:20 [Benedikte Wallace](#), [Charles P. Martin](#) and [Kristan Nymoen](#)
Tracing from Sound to Movement with Mixture Density Recurrent Neural Networks ([abstract](#))

12:40 [Milka Trajkova](#)
Towards AI-Enhanced Ballet Learning
([abstract](#))

13:00 [Will Hallett](#)
Adipose Tissue: Localizeable Relations and the Fat Body ([abstract](#))

13:20 [Sarah Vollmer](#)
Curious Creatures: a living virtual research-creation lab ([abstract](#))

13:40 [Timothy Wood](#)
Eco-Somatic Performance Worldmaking
([abstract](#))

15:00-16:15 Session 2: KEYNOTE _KRISTINA HOOK

KEYNOTE

LOCATION: [Stauffer B, B125](#)

16:30-18:00 Session 3A: Deconstructing Gesture:
Investigating Embodied Motion

WORKSHOP

LOCATION: [Stauffer B, B111](#)

16:30 [Kristin Carlson](#) and [Greg Corness](#)
Deconstructing Gesture: Investigating Embodied Motion ([abstract](#))

16:30-18:00 Session 3B: Modeling Dance History and Embodied Data: Some Approaches to Katherine

Dunham's Movement on the Move

WORKSHOP

LOCATION: [Stauffer B, B103](#)

16:30 [Kate Elswit](#), [Antonio Jimenez-Mavillard](#) and
[Harmony Bench](#)

**Modeling Dance History and Embodied Data:
Some Approaches to Katherine Dunham's
Movement on the Move** ([abstract](#))

16:30-18:00 Session 3C: Dance Notation as a Means
of Preserving Embodied Knowledge

LOCATION: [Stauffer B, B125](#)

16:30 [Rommie Stalnaker](#) and [Susan Wiesner](#)

**Dance Notation as a Means of Preserving
Embodied Knowledge** ([abstract](#))

16:30-18:00 Session 3D: Co-constructing Events in
Responsive Environments

WORKSHOP

LOCATION: [IStage.@ Matthews Center](#)

16:30 [Xin Wei Sha](#), [Jessica Rajko](#), [Todd Ingalls](#), [John
MacCallum](#), [Teoma Naccarato](#), [Lauren Hayes](#),
[Garrett Johnson](#), [Emiddio Vasquez](#), [Brandon
Mechtley](#), [Chris Ziegler](#), [Seth Thorn](#), [Connor
Rawls](#), [Peter Weisman](#), [Assegid Kidane](#), [Yanjun
Lyu](#) and [Shomit Barua](#)

**Co-constructing Events in Responsive
Environments** ([abstract](#))

16:30-18:00 Session 3E: Moving Between Worlds

WRKSHOP

LOCATION: [Stauffer B, B123](#)

16:30 [Timothy Wood](#)

Moving Between Worlds ([abstract](#))

18:30-20:30 Welcome Reception at The Graduate
Hotel (cash bar)

Welcome Reception

LOCATION: [Graduate Hotel - The Normal Bar](#)

Friday, October 11th

View this program: [with abstracts](#) [session
overview](#) [talk overview](#)

08:00-11:00 REGISTRATION OPEN

Registration table open- Day 2

LOCATION: [Stauffer B, Breezeway South Entrance](#)

09:00-10:15 Session 4: Movement and HCI

PAPER SESSION 1 - FRIDAY: Movement and Design

CHAIR: [Thecla Schiphorst](#)

LOCATION: [Stauffer B, B125](#)

09:00 [Mark-David Hosale](#), [Erika Batdorf](#), [Kate Digby](#)
and [Alan Macy](#)

**Performance, Art, and Cyber-Interoceptive
Systems (PACIS)** ([abstract](#))

09:25 [Elena Márquez Segura](#), [Laia Turmo Vidal](#), [Luis Parrilla Bel](#) and [Annika Waern](#)

Using Training Technology Probes in Bodystorming for Physical Training ([abstract](#))

09:50 [Kristin Carlson](#), [Sarah Fdili Alaoui](#), [Greg Corness](#) and [Thecla Schiphorst](#)

Shifting Spaces: Using Defamiliarization to Design Choreographic Technologies That Support Co-Creation ([abstract](#))

10:15-10:30 Coffee Break

10:30-12:00 Session 5: Sound and Movement Computing

Sound and Movement Computing

CHAIR: [Lauren Hayes](#)

LOCATION: [Stauffer B, B125](#)

10:30 [Jan Schacher](#) and [Lia Wei](#)

Gesture-Ink-Sound: Linking Calligraphy Performance with Sound ([abstract](#))


10:55 [Vilemini Kalampratsidou](#) and [Elizabeth Torres](#)

Bodily Signals Entrainment in the Sound of Music ([abstract](#))

11:20 [Seth Thorn](#) and [Xin Wei Sha](#)

Instruments of Articulation: Signal Processing in Live Performance ([abstract](#))

11:45 [Hannes Hoelzl](#), [Isak Han](#) and [Alberto de Campo](#)

The Airborne Instruments nUFO: a Movement Based Musical Instrument for Possibility Space Exploration ([abstract](#)) 

12:00-13:30 Lunch Break

12:00-13:30 Session 6A: Poster Session

Poster Session #1 (6 posters)

LOCATION: [Stauffer B, B123](#)

12:00-13:00 Session 6B: KHONG KHRO

Installation

LOCATION: [Stauffer B, Gallery](#)

12:00-12:30 Session 6C: Intimidatrix

LOCATION: [Stauffer B, B123](#)

12:00 [Kristina Warren](#)

Intimidatrix ([abstract](#))

13:30-14:45 Session 7: KEYNOTE _MAAIKE BLEEKER

LOCATION: [Stauffer B, B125](#)

14:45-15:00 Coffee Break

15:00-16:05 Session 8: Robots

Robotics

CHAIR: [Chris Ziegler](#)

LOCATION: [Stauffer B, B125](#)

15:00 [Yichen Zhou](#), [Maxwell Asselmeier](#) and [Amy LaViers](#)

**Toward Expressive Multi-Platform
Teleoperation: Laban-Inspired Concurrent
Operation of Multiple Joints on the Rethink
Robotics Baxter Robot in Static and Dynamic
Tasks** ([abstract](#))

15:25 [Elizabeth Jochum](#) and [Jeroen Derks](#)
**Tonight We Improvise! Real-time tracking for
human-robot improvisational dance** ([abstract](#))

15:50 [Greg Corness](#) and [Kristin Carlson](#)
**Embodied Intention: Robot Spinal Initiation to
Indicate Directionality** ([abstract](#))

16:05-16:15 Coffee Break

16:15-17:45 Session 9: Generative tension in cross-
disciplinary collaboration: Call for provocations and
panelists at MOCO 2019

Panel

LOCATION: [Stauffer B, B125](#)

16:15 [John MacCallum](#), [Teoma Naccarato](#) and [Jessica
Rajko](#)
**Generative tension in cross-disciplinary
collaboration: Call for provocations and
panelists at MOCO 2019** ([abstract](#))

17:55-18:30 Session 10: Body and Embodiment in
Dance Performance

Performance

LOCATION: [Stauffer B, B111](#)

17:55 [Youhong Peng](#) and [Atau Tanaka](#)
Body and Embodiment in Dance Performance
([abstract](#))

18:00-18:30 Session 11A: com//ense

Performance

LOCATION: [Stauffer B, Gallery](#)

18:00-18:20 Session 11B: DATURA: – Kymatocarpa -
the Ephemeral Performance Garden

Performance

LOCATION: [Fine Arts Center, FAC 122](#)

18:15-19:00 Session 12A: Embodying Notation:
Scoring Movement in Augmented Reality

time-based demo

LOCATION: [Stauffer B, B123](#)

18:15 [Hannah Kosstrin](#) and [Chris Summers](#)
**Embodying Notation: Scoring Movement in
Augmented Reality** ([abstract](#))

18:15-19:15 Session 12B: Skeleton Conductor: an
interactive real time, movement-based VR experience

Tie-based Demo/Performance

LOCATION: [IStage, @ Matthews Center](#)

18:15 [Hanna Pajala-Assefa](#) and [Cumhur Erkut](#)
**Skeleton Conductor: an interactive real time,
movement-based VR experience** ([abstract](#))

18:30-19:00 Session 13: KHONG KHRO

INSTALLATION

LOCATION: [Stauffer B, Gallery](#)

19:00-19:20 Session 14: DATURA: – Kymatocarpa - the Ephemeral Performance Garden

Performance

LOCATION: [Fine Arts Center, FAC 122](#)

19:00 [John Mitchell](#) and [Halley Willcox](#)

Performance Proposal by DATURA: – Kymatocarpa - the Ephemeral Performance Garden ([abstract](#))

Saturday, October 12th

View this program: [with abstracts](#) [session overview](#) [talk overview](#)

08:30-10:00 ReGISTRATION OPEN

registration table open day#3

09:00-10:30 Session 15: Movement Recognition

Movement Recognition

CHAIR: [Frédéric Bevilacqua](#)

LOCATION: [Stauffer B, B125](#)

09:00 [Richard Polfreman](#), [Benjamin Oliver](#), [Cheryl Metcalf](#) and [Daniel Halford](#)

Force & Motion: Conducting to the Click ([abstract](#))

09:15 [Marina Stergiou](#), [Katerina El Raheb](#) and [Yannis Ioannidis](#)

Imagery and metaphors: from movement practices to digital and immersive environments ([abstract](#))

09:40 [Kyle Stewart](#), [Tobias Kohn](#) and [Bill Manaris](#)

K-Multiscope: Combining Multiple Kinect Sensors into a Common 3D Coordinate System ([abstract](#))

10:05 [Todd Winkler](#)

The Mirrored Body: Sensation, Agency and Expression in a Video Processed World ([abstract](#))

10:20 [Yoav Bergner](#), [Shiri Mund](#), [Ofer Chen](#) and [William Payne](#)

First Steps in Dance Data Science: Educational Design ([abstract](#))

10:50-11:00 Coffee Break

11:00-12:15 Session 16: KEYNOTE_SYLVAIN MORENO

KEYNOTE

LOCATION: [Stauffer B, B125](#)

12:15-13:30 Lunch Break

12:15-16:00 Session 17: Poster Session

PosterSession#2-

LOCATION: [Stauffer B, B123](#)

13:30-14:45 Session 18: Movement Analysis and Representation

Movement Representation

CHAIR: [Pavan Turaga](#)

LOCATION: [Stauffer B, B125](#)

13:30 [Artur Becker](#), [Henrik Henrik Herrebrøden](#), [Victor Evaristo González Sánchez](#), [Kristian Nymoen](#), [Carla Maria Dal Sasso Freitas](#), [Jim Torresen](#) and [Alexander Refsum Jensenius](#)

Functional Data Analysis of Rowing Technique Using Motion Capture Data
([abstract](#))

13:55 [Aishah Hussain](#), [Camilla Mødekjær](#), [Cumhur Erkut](#), [Sofia Dahl](#) and [Nicoline Warming Austad](#)

Evaluating movement qualities with visual feedback for real-time motion capture
([abstract](#))

14:20 [Anne Dubos](#) and [Jan Schacher](#)

The Calder Effect - Embodied Knowledge Through Moving Images ([abstract](#))

14:45-15:00 Coffee Break

15:00-16:15 Session 19: Machine Learning

Machine Learning

CHAIR: [Cumhur Erkut](#)

LOCATION: [Stauffer B, B125](#)

15:00 [Mariel Pettee](#), [Chase Shimmin](#), [Douglas Duhaime](#) and [Ilya Vidrin](#)

Beyond Imitation: Generative and Variational Choreography via Machine Learning ([abstract](#))

15:25 [Lucas Liu](#), [Duri Long](#), [Swar Gujrana](#) and [Brian Magerko](#)

Learning Movement through Human-Computer Co-Creative Improvisation ([abstract](#))

15:50 [Selçuk Sezer](#) and [Elif Surer](#)

Information Augmentation for Human Activity Recognition and Fall Detection using Empirical Mode Decomposition on Smartphone Data ([abstract](#))

16:00-16:15 Session 20: MOCO'20!!

LOCATION: [Stauffer B, B125](#)

16:30-17:00 Session 21A: Inverted Narratives(IN): Design Through Practice

PERFORMANCE

LOCATION: [Stauffer B, B111](#)

16:30 [Christiana Rose](#)

Inverted Narratives(IN): Design Through Practice ([abstract](#))

16:30-17:00 Session 21B: Mubone: An Augmented Trombone and Movement-Based Granular Synthesizer

DEMO

LOCATION: [Stauffer B, B123](#)

16:30 [Travis J. West](#) and [Kalun Leung](#)
**Mubone: An Augmented Trombone and
Movement-Based Granular Synthesizer**
([abstract](#))

16:30-17:15 Session 21C: A Machine

Practice Works - Performance

LOCATION: [Stauffer B, Gallery](#)

16:30 [Amy LaViers](#)
A Machine ([abstract](#))

17:00-19:00 Session 22: Double Agent: the dancer in
the machine

PERFORMANCE

LOCATION: [Fine Arts Center, FAC 122](#)

17:00 [Simon Biggs](#), [Sue Hawksley](#), [Samya Bagchi](#) and
[Mark McDonnell](#)
Double Agent: the dancer in the machine
([abstract](#))

17:30-18:45 Session 23: A Shared Gesture and
Positioning System for Smart Environments

Demo-Performance

LOCATION: [IStage, @ Matthews Center](#)

17:30 [Jiayue Cecilia Wu](#), [Lauren Hayes](#) and [John
Robert Ferguson](#)

**Exploring Embodied Sonic Meditation
through time and space** ([abstract](#))

18:00 [Chris Ziegler](#), [Tejaswi Gowda](#) and [Brandon
Matchley](#)

**A Shared Gesture and Positioning System for
Smart Environments** ([abstract](#))

18:30 [Seth Thorn](#)

**Augmented Violin Performance: A Model-Free
Personal Instrument** ([abstract](#))

19:00 [Scotty Hardwig](#) and [Zach Duer](#)

Body, Full of Time ([abstract](#))

19:00-21:00 Gala! Food, Drink, DJs@ Art Museum
Rooftop

Gala

LOCATION: [ASU Art Museum Rooftop](#)

19:00-21:00 Session 24: Qualia

LOCATION: [ASU Art Museum Rooftop](#)

19:00 [Lori Brungard](#)
Qualia ([abstract](#))