

Mind & Machine Virtual Summit Agenda

UC Santa Barbara
February 16 – 17, 2021

February 16, 2022

- 9:00am **Welcome and Opening Remarks**
Miguel Eckstein and William Wang, UC Santa Barbara
- 9:05am **Keynote: Agile Movement & Embodied Intelligence: Computational and Comparative Considerations**
[Bing Brunton](#), University of Washington, Seattle
- 10:05am **Introduction to Session 1: Neuroscience to Advance AI**
Moderators: [Michael Beyeler](#), Computer Science & Psychological & Brain Sciences, UC Santa Barbara
[William Wang](#), Computer Science, UC Santa Barbara
- 10:10am **The Neural Computations Underlying Human Social Interaction Perception**
[Leyla Isik](#), Cognitive Science, Johns Hopkins University
- 10:35am **Inductive Bias of Neural Networks**
[Cengiz Pehlevan](#), Applied Mathematics, Harvard University
- 11:00am **Knowledge and Data in Neuro-Symbolic Learning**
[Guy Van den Broeck](#), Computer Science, UC Los Angeles
- 11:25am **Panel Discussion and Q&A**
- 12:05pm Meeting adjourns

February 17, 2022

- 9:00am **Welcome to Day 2**
William Wang and Miguel Eckstein, UC Santa Barbara
- 9:05am **Introduction to Session 2: AI to Advance Brain Understanding**
Moderators: [Scott Grafton](#), Psychological & Brain Sciences, UC Santa Barbara
[Michael Goard](#), Molecular, Cellular, and Developmental Biology & Psychological & Brain Sciences, UC Santa Barbara
- 9:10am **Language in Brains and Algorithms**
[Jean-Rémi King](#), Facebook AI Research | Ecole Normale Supérieure
- 9:35am **Towards Robust Representations of Neural Activity**
[Eva Dyer](#), Biomedical Engineering, Georgia Tech
- 10:00am **Neural Circuits of Cognition in Artificial and Biological Neural Networks**
[David Freedman](#), Neurobiology, The University of Chicago
- 10:25am **Panel Discussion and Q&A**

February 17, 2022 (Part II)

- 11:05am **Introduction to Session 3: Learning and Representations in AI and Brains**
Moderators: [Miguel Eckstein](#), Psychological and Brain Sciences, UC Santa Barbara
[Ikuko Smith](#), Molecular, Cellular, and Developmental Biology &
Psychological & Brain Sciences, UC Santa Barbara
- 11:10am **Self-Motivated and Self-Supervised Open-World Continual Learning**
[Bing Liu](#), Computer Science, University of Illinois at Chicago
- 11:35am **Stimulus-Dependent Representational Drift in Primary Visual Cortex**
[Michael Goard](#), Molecular, Cellular, and Developmental Biology, UC Santa Barbara
- 12:00am **Deep Recurrent Neural Networks as a Modelling Framework for Understanding Human Vision**
[Tim Kietzmann](#), Donders Institute for Brain, Cognition, and Behavior
- 12:25am **Panel Discussion and Q&A**
- 1:00pm Meeting adjourns