Visiting Participant List
Origins of Pattern Processing: Lessons from the Brain
The Origins Project at ASU
March 11-13, 2016
Tempe Mission Palms Resort, Tempe, Arizona

<u>Workshop Participants and tentative topics</u>

Ori Amir, University of Southern California
Neural Basis for Image Preference
████████████████

Colin Camerer, California Institute of Technology
Neuroeconomics and Decision Making
████████████████

Antonio Damasio, University of Southern California
Neuroanatomy of Creativity
████████████

Paul Dagum, Mindstrong Health
Detecting Cognitive States and Disorders
████████████

John Daugman, University of Cambridge
Patterns Emerging from Apparent Chaos
████████████████████████

Chris Frith, University College London
The Neural Basis of Social Interaction
████████████████

Jordan Grafman, Northwestern University
Emotional Intelligence
████████████

Michael Graziano, Princeton University
Attention Schema Theory and Subject Awareness
████████████████████

Eric Horvitz, Microsoft
Computational Rationality and the Convergence of Brains, Minds, and Machines
████████████████

Dimitrios Kapogiannis, National Institutes of Health
Escape from Reality: The Cognitive Neuroscience of Religion
████████████████████

Christof Koch, Allen Institute for Brain Science

Title TBD
████████████

Barbara Landau, Johns Hopkins University
Language, Maps, and the Patterns of Human Communication
████████████

Yann LeCun, New York University
Deep Learning and Recurrent Nets
██████████

Daniel Levitin, McGill University
Neuroscience of Musical Perception and Performance
██████████████

Fei-Fei Li, Stanford University
Algorithms for Machine Learning of Patterns
████████████

Sonia Lupien, University of Montreal Mental Health Research Center
How Stress Alters Cognition and Behavior Patterns
██████████████

Gary Marcus, New York University
Music and the Science of Learning
██████████

Mark Mattson, National Institutes of Health, and Johns Hopkins University
Superior Pattern Processing is the Essence of the Evolved Human Brain
████████████

Michael Meaney, McGill University, Montreal
How Early Life Experiences Instill Persistent Cognitive Patterns
████████████

Jean-Baptiste Mouret, CNRS Paris
Engineering Robots that Adapt to Adversity
████████████

Eric Reiman, Banner Alzheimer's Institute, University of Arizona College of Medicine
Mission Impossible? Preventing Self Destruction of the Human Pattern Processor
████████████████

Daniela Rus, MIT
Construction of Self-Reconfiguring Robots
████████████

Elyn Saks, University of Southern California
DSM-5: An Encyclopedia of Aberrant Pattern Processing
████████████

Terrence (Terry) Sejnowski, The Salk Institute
Computational Neuroscience and Artificial Intelligence
███████████

Michael Stryker, University of California San Francisco
How Photon Patterns Sculpt the Developing Visual Cortex
██████████████

Josh Tenebaum, Massachusetts Institute of Technology
Structure, Mind, and Machine Intelligence
███████