Approved by the Board of Trustees

March 30, 2023

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Board Meeting

March 30, 2023

## APPOINT FELLOWS TO THE CENTER FOR ADVANCED STUDY,

## ACADEMIC YEAR 2023-2024, URBANA

**Action:** Appoint Fellows to the Center for Advanced Study, Academic Year

2023-2024

**Funding:** Private Gift Funds from the Beckman Endowment

Each year, the Center for Advanced Study awards appointments as Fellows in the Center, providing one semester of release time for creative work. Fellows are selected in an annual competition from the untenured faculty of all departments and colleges to carry out self-initiated programs of scholarly research or professional activity.

The Chancellor, University of Illinois Urbana-Champaign, and Vice President, University of Illinois System, recommends the following list of Fellows selected for the 2023-2024 academic year, and offers brief descriptions of their projects:

**\*Christina Bollo, Assistant Professor, Architecture,** *Design for Recovery from Homelessness*

Persistent homelessness is a trauma-inducing, identity-crushing experience that requires support for recovery. Architecture can contribute to that recovery when designers have the tools to create housing that enables a sense of constancy and autonomy for residents. This book project draws on built work across North America to serve as a guide for designers and design-motivated developers as they create permanent supportive housing in their communities.

**\*Decker French, Assistant Professor, Astronomy***, Tidal Disruption Events as Supermassive Black Hole Laboratories*

Bright flares of light can be observed when stars travel close enough to supermassive black holes, as material from the destroyed star is consumed by the black hole. Professor French will model and test strategies for finding these flares and using them to study the population of supermassive black holes.

**\*Mattia Gazzola, Assistant Professor, Mechanical Science and Engineering,** *An In Vitro Auditory System to Listen to and Compose Music*

This project deals with the development of a rudimentary in vitro auditory system based on living neurons, and with its demonstration for sound processing and creative synthesis in the context of music.

**\*Fahad Mahmood, Assistant Professor, Physics,** *Decoding Quantum Emergence with Double Photoemission Spectroscopy*

Professor Mahmood will determine the principal rules governing emergent quantum phases of matter by developing and using a new spectroscopy that relies on measuring the energy and momentum distribution of an entangled pair of electrons.

The Board action recommended in this item complies in all material respects with applicable State and federal laws, University of Illinois *Statutes*, *The General Rules Concerning University Organization and Procedure*, and Board of Trustees policies and directives.

 The Executive Vice President and Vice President for Academic Affairs concurs.

 The President of the University of Illinois System recommends approval.

\* These faculty members have been recommended for appointment as Beckman Fellows in the Center for Advanced Study, named for the donor of a gift that permits additional recognition for outstanding younger Fellow candidates who have already made distinctive scholarly contributions to their respective fields.