

ASPIRE AT JURC2025

Maximizing impact through strategic networking
among established researchers -

**Creating the leaders of tomorrow through
Japan-US Talent Mobility**

July 29, 2025, 9:00-11:00 am

Stanford University Munzer Auditorium

ASPIRE Research Updates

Physical properties and device applications of metal Mg-intercalated GaN superlattice (MiGs) nanostructures and their implications for the ultra-high doping of ultra-wide bandgap semiconductors (AlN, Ga₂O₃, etc.)

- **Hiroshi Amano**, Professor, Nagoya University

- **Srabanti Chowdhury**, Professor, Stanford University

Principal Investigators, ASPIRE Amano-Chowdhury Project

AI Processor Joint Research in Silicon Valley and Japan

- **Atsutake Kosuge**, Lecturer, The University of Tokyo

Principal Investigator, ASPIRE Kosuge-Raina Project

Voices of Early-Career Researchers

Pursuing Science in the U.S.

Aspirations and motivations from Japan's next generation of researchers - A roundtable exploring the dreams, challenges, and inspirations of young Japanese researchers in the U.S.

- **Tomoya Nakamura**, Associate Professor, Osaka University,

Outgoing researcher, ASPIRE Koike-Wetzstein Project

- **Ayami Hiramoto**, Visiting scholar, Northwestern University

- **Shun Yokoi**, Visiting scholar, Stanford University

- **Aila Koch**, Undergraduate, Purdue University

with a brief commentary from **Soichi Wakatsuki**,

Professor, Stanford University

Facilitator: **Dai Minowa** | Host: **Kaoru Toyofuku**, JST



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Come and Meet Us!

Tomoya is an Associate Professor at the Graduate School of Engineering Science, the University of Osaka, working on computational imaging and holography. He received his Ph.D. from Osaka University in 2015. He is a member of Optica.



Tomoya Nakamura
Associate Professor
Osaka University

Ayami is a postdoctoral researcher at Northwestern University, working in experimental fundamental physics. She earned her Ph.D. from Kyoto university, where she worked on neutrino physics. She joined her current experiment, which investigates the fundamental properties of electrons, and moved to the US in 2024.



Ayami Hiramoto
Visiting scholar
Northwestern University

Shun is a postdoctoral researcher at the International Institute for Integrative Sleep Medicine (WPI-IIIS), University of Tsukuba, and a visiting scholar at Stanford University. His work in computational biophysics focuses on the dynamics of biomolecules using large-scale simulations to advance drug discovery through international collaboration.



Shun Yokoi
Visiting scholar
Stanford University

Aila was born and raised in Japan until age 12, when she moved to the US. She is currently an undergraduate in materials engineering at Purdue University. She has experience processing semiconductors in a cleanroom and is currently conducting research on meteorites using X-ray computed tomography.



Aila Koch
Undergraduate
Purdue University

JST Science Channel
THE MAKING 277

For in-person attendees only!

Free Kintaro Candy!

- a traditional Japanese sweet with a face pattern inside -

Plus, a Making-of Video Screening!



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