

Open Postdoctoral Positions

through December 2027

in Resilient Human-Machine-AI Autonomy

Prof. SooJean Han & Prof. Hiroyasu Tsukamoto

School of Electrical Engineering
Korea Advanced Institute of Science and Technology (KAIST)
&
Department of Aerospace Engineering
University of Illinois Urbana-Champaign (UIUC)



Korea Advanced Institute of
Science and Technology



UNIVERSITY OF
ILLINOIS
URBANA-CHAMPAIGN

We are hiring for our ongoing collaborative grant on **generative AI autonomy with control-theoretic guarantees for stability, safety, adaptation, and robustness**. Applications are invited for one fully funded, full-time postdoctoral researcher positions through December 2027, broadly in nonlinear and/or stochastic control theory and AI. Some concrete topics include:

- VLAM dynamics modeling and representation learning for robot control.
- Stability / safety guarantees for generative AI planners.
- Active learning for data-efficient robotic systems.
- Human-in-the-loop autonomy and adaptive planning under uncertainty.

The position is research-focused, with opportunities for graduate student mentoring, seminars, active collaboration across groups, and access to robotics platforms and computing resources where appropriate. Independent research directions may also be developed within the broader theme of the grant.

Candidates from related fields are also welcome to apply. The selected candidate will be jointly appointed by KAIST and UIUC and will be based primarily in Korea, working under Prof. SooJean Han at KAIST (<https://soojean.github.io/>) and Prof. Hiroyasu Tsukamoto at UIUC (<https://hirotsukamoto.com/>).

Candidates must hold a doctoral degree and reside inside Korea for the period of appointment (see eligibility details [here](#)). The salary for these positions will follow the requisites of the grant, both institutions' standards, and be commensurate with the candidate's qualifications and experience, with appropriate consideration given to institutional equity.

To be considered, please email soojean@kaist.ac.kr and hiroyasu@illinois.edu with a CV and a short summary of research experience and interests. Applications will be reviewed on a rolling basis until the position is filled (at the latest, October 2026).