List of Potential Hosting Institutions for Professor Charles K. Kao Research Exchange Scholarship 2027

Code No.	Institution	Department/Professor Nominated	Topics/Areas of the Research Project	Student Place(s) Available
1	University of California, Los Angeles, USA	**Prof. Tony Nowatzki** Associate Professor Computer Science Website: https://web.cs.ucla.edu/~tjn/	GPU Programming Language/ Compiler/ Hardware extensions for locality in emerging AI workloads; Accelerator Compiler Stacks	1-2
2	Singapore University of Technology and Design, Singapore	**Prof. Peng Song** Assistant Professor Pillar of Information Systems Technology and Design (ISTD) Website: https://www.sutd.edu.sg/profile/song-peng/	Agentic Design of Complex Assemblies This internship project explores how AI agents can support the design of complex assemblies by translating high-level user intentions, expressed through text or image prompts, into physically feasible assemblies. The project will develop an agentic workflow that combines 3D modeling, constraint checking, and iterative refinement to produce assemblies whose components fit together and meet functional goals. The aim is to reduce repetitive design work while keeping users in control of key design decisions.	2

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3	Monash University, Melbourne, Victoria, Australia	**Prof. Tien-Tsin Wong** Professor Department of Data Science & Artificial Intelligence Website: https://research.monash.edu/en/persons/tien-tsin-wong/	Generative AI; Computer Graphics; and Computer Vision.	1
4	Stevens Institute of Technology, Hoboken, USA	**Prof. Hao Wang** Assistant Professor Department of Electrical and Computer Engineering Website: https://www.stevens.edu/profile/hwang9	LLM Security; LLM Training/ Serving Systems	2
5	University of Wisconsin, Madison, USA	**Prof. Tsung-Wei Huang** Associate Professor Department of Electrical and Computer Engineering Website: https://tsung-wei-huang.github.io/	Electronic design automation; quantum computing; and machine learning	1-2

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6	University of Warwick, UK	**Prof. Emma MacPherson** Professor Department of Physics Website: https://warwick.ac.uk/fac/sci/physics/staff/academic/emacpherson/	Developing THz techniques for assessing skin cancer	1
7	National Yang Ming Chiao Tung University, Taiwan	**Professor Chow Chi Wai** Professor Department of Photonics Website: Chi Wai Chow - National Yang Ming Chiao Tung University Academic Hub	Optical Wireless Communication (OWC)	1
8	University of Georgia, USA	**Prof. Mable Fok** Professor School of Electrical and Computer Engineering Website: https://engineering.uga.edu/team_member/mable-fok/	Soft robotics and fiber optic sensing	1

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9	University of Wollongong, Australia	**Dr. Chin-Hsing Kuo** Senior Lecturer and Interim Academic Program Director for Mechanical Engineering School of Engineering, Faculty of Engineering and Information Sciences Website: Chin-Hsing Kuo | About | University of Wollongong	Robotics	1
10	University of New South Wales, Australia	**Dr. Liao Wu** Senior Lecturer (Robotics) School of Mechanical and Manufacturing Engineering Faculty of Engineering Website: https://www.drliaowu.com/	Robotics	1

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11	Simon Fraser University, British Columbia, Canada	**Prof. Sze Yiu Chau** Associate Professor School of Computing Science Website: https://szeyiuchau.github.io/	Network security and measurements; Security of software implementations and deployments; AI for security; Usable security and privacy	2
12	University of Cambridge, United Kingdom	**Prof. Varun Jog** Professor of Information Theory and Statistics Department of Pure Mathematics and Mathematical Statistics (DPMMS) Website: https://varunjog.github.io/	Information theory, machine learning, and statistics. *(Remark: Students who apply for this exchange offer need formal math training, and hence is best suited for MIEG students.)*	1
13	Nanyang Technological University (NTU), Singapore*	**Prof. Chen-Change Loy** Tan Lip-Bu Professor in Artificial Intelligence President's Chair in Computer Science College of Computing and Data Science, NTU Website: https://www.mmlab-ntu.com/person/ccloy/	Computer vision and Embodied AI	1

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14	IT University of Copenhagen	**Prof. David Bernardo** Associate Professor Department of Computer Science Website: https://www.bmdavid.com	Cryptographic protocols with dynamic committees for privacy preserving computation and consensus	1-2
15	Monash University	**Prof. John Tsz-Hon Yuen** Associate Professor Department of Software Systems and Cybersecurity / Tsz Hon Yuen **Website:** https://research.monash.edu/en/persons/john-yuen	Cryptography, Cybersecurity, Fintech	1-2
16	University of Luxembourg	**Dr. Andy Rupp** Research scientist Department of Computer Science **Website:** https://homepage.rub.de/andy.rupp	Anamorphic Cryptography, Post-Quantum Secure Digital Payments	2

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17	Technical University of Wien, Vienna	**Prof. Dominique Schröder** Full Professor Institute of Logic and Computation Website: https://www.dominique-schroeder.de	Postquantum cryptography, zero-knowledge proof, privacy-enhancing technologies.	1
18	Northwestern University, USA	**Prof. Ping Guo** Associate Professor Department of Mechanical Engineering Website: https://pingguo.mech.northwestern.edu	Ultrasonic vibration machining; Structural coloration; Solid-state powder production; Machine learning-based metrology; Photometric stereo; Digital image correlation	1-2
19	Ulsan National Institute of Science & Technology (UNIST), South Korea	**Prof. Dong-Young Lim** Assistant Professor Department of Industrial Engineering Artificial Intelligence Graduate School Website: https://sites.google.com/view/dlim/home	Optimization theory, deep learning theory/methodology, or AI applications in science; specifically, - Neural SDE - multiscale PDE - physics-informed diffusion models - LLM and hallucination model compression	1