

Dr. ANRAN QI

Project Assistant Professor · Igarashi Lab · The University of Tokyo

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GENERAL INFORMATION

Date of Birth	24/10/1995
Current Position	Project Assistant Professor at Igarashi Lab, The University of Tokyo, Japan
Research Interests	Computational design methods for creative and human-centric applications, with a focus on garments and human sketching, from AI, HCI, and CG perspectives.

PROFESSIONAL EXPERIENCE

Project Assistant Professor <i>Igarashi Lab, University of Tokyo, Japan</i> Advisor: Prof. Dr. Takeo Igarashi	Dec 2025 – Present
Postdoctoral Researcher <i>GraphDeco, Inria Centre at Université Côte d'Azur, Sophia Antipolis, France</i> Supervisor: Dr. Adrien Bousseau Research topic: Computer-aided design tools to support novices in upcycling garments.	Dec 2023 – Dec 2025
Project Assistant Professor <i>University of Tokyo, Japan</i> Supervisor: Prof. Dr. Takeo Igarashi Research topic: Designing garment editing systems for screen and XR environments.	Apr 2023 – Nov 2023
Postdoctoral Researcher <i>University of Tokyo, Japan</i> Supervisor: Prof. Dr. Takeo Igarashi Research topic: Designing and implementing a garment re-editing system enabling users to redesign garments on a 2D interface.	Nov 2021 – Mar 2023
Assistant Research Engineer <i>Samsung Electronics, Staines, UK</i> Line Manager: Dr. Mete Ozay Research topic: Developing a probabilistic model to predict personalized image edits from editing history.	Jan 2020 – Jun 2020

EDUCATION

Ph.D. in Computer Science <i>University of Surrey, UK</i> Supervisors: Prof. Yi-Zhe Song, Dr. Yulia Gryaditskaya Doctoral thesis: Retrieval and Personalised Segmentation of Amateur Free-Hand Sketches	Sep 2017 – Oct 2021
B.Sc. with Honours (First Class) <i>Queen Mary University of London, UK</i> Dual degree: B.Eng., Beijing University of Posts and Telecommunications, China	Sep 2013 – Jun 2017

AWARDS AND GRANTS

Awards

- Best Paper Award — de Malefette Charles, Anran Qi, Amal Dev Parakkat, Marie-Paule Cani, and Takeo Igarashi. “PerfectDart: Automatic Dart Design for Garment Fitting.” SIGGRAPH Asia 2023 Technical Communications, pp. 1–4, 2023.
- Best XR Demo Award — Kiuchi Akihiro, Anran Qi, Eve Mingxiao Li, David Maruscsak, Christian Sandor, and Takeo Igarashi. “PerfectFit: Custom-Fit Garment Design in Augmented Reality.” SIGGRAPH Asia 2023 XR, pp. 1–2, 2023.
- Excellent Graduate Student — Queen Mary University of London (10/334), 2017

Funding

- “Seal of Excellence” MSCA Postdoctoral Fellowship, 2024
- Franco-Australian Hubert Curien Partnership, 2025 (€3K)

Participation in Funded Projects

- Postdoctoral Researcher (2023–present) — ANR project, France (€500K)
PI: Dr. Theophanis Tsandilas • Title: Graphical Languages for Creating Infographics
- Project Assistant Professor (2022–2023) / Postdoctoral Researcher (2021–2022) — JST CREST project, Japan (€1.85M)
PI: Prof. Dr. Takeo Igarashi • Title: Interaction Techniques for Understanding and Control of Data-Driven Intelligent Information Systems

PUBLICATIONS

International Journals (Peer-reviewed)

- [J.5] Anran Qi, Changjian Li, Adrien Bousseau and Niloy J. Mitra. “A Study of the Design Space of Motion and Disocclusion Control in Video Generation.” Conditionally accepted to Computer Graphics Forum (PG2026).
- [J.4] Anran Qi, Theophanis Tsandilas, Ariel Shamir, and Adrien Bousseau. “Sketch2Data: Recovering Data from Hand-Drawn Infographics.” IEEE Computer Graphics and Applications. doi: 10.1016/j.cag.2025.104251
- [J.3] Anran Qi and Takeo Igarashi. “PerfectTailor: Scale-Preserving 2D Pattern Adjustment Driven by 3D Garment Editing.” IEEE Computer Graphics and Applications. doi: 10.1109/MCG.2024.3378171
- [J.2] Anran Qi, Yulia Gryaditskaya, Tao Xiang, and Yi-Zhe Song. “One Sketch for All: One-Shot Personalized Sketch Segmentation.” IEEE Transactions on Image Processing, vol. 31, pp. 2673–2682, 2022.
- [J.1] Anran Qi, Yulia Gryaditskaya, Jifei Song, Yongxin Yang, Yonggang Qi, Timothy M. Hospedales, Tao Xiang, and Yi-Zhe Song. “Toward Fine-Grained Sketch-Based 3D Shape Retrieval.” IEEE Transactions on Image Processing, vol. 30, pp. 8595–8606, 2022.

International Conferences (Peer-reviewed)

- [C.13] Anran Qi, Nico Pietroni, Mikhail Bessmeltsev, Nobuyuki Umetani, Adrien Bousseau, and Takeo Igarashi. “Voronoi Scissors: Approximate Dissection of 2D Shapes with Continuous Optimization.” Conditionally accepted, SIGGRAPH Asia 2026 (Conference Track).
- [C.12] Jotaro Sakamiya, George Xu, Anran Qi, I-Chao Shen, Nadav Cohen, Yuki Koyama, and Takeo Igarashi. “Many-Videos Browsing: Interactive Visualization of Generated Video Collections.” Conditionally accepted, SIGGRAPH Asia 2026 (Conference Track).
- [C.11] Anran Qi, Nico Pietroni, Maria Korosteleva, Olga Sorkine-Hornung, and Adrien Bousseau. “Rags2Riches: Computational Garment Reuse.” SIGGRAPH 2025.
- [C.10] Yuki Tatsukawa, Anran Qi, I-Chao Shen, and Takeo Igarashi. “GarmentImage: Raster Encoding of Garment Sewing Patterns with Diverse Topologies.” SIGGRAPH 2025.
- [C.9] Yuki Tatsukawa, I-Chao Shen, Mustafa Doga Dogan, Anran Qi, Yuki Koyama, Ariel Shamir, and Takeo Igarashi. “FontCraft: Multimodal Font Design Using Interactive Bayesian Optimization.” CHI 2025.
- [C.8] Yuta Fukushima, Anran Qi, I-Chao Shen, Yulia Gryaditskaya, and Takeo Igarashi. “3D Reconstruction from Sketch with Hidden Lines by Two-Branch Diffusion Model.” Eurographics 2024, Short Papers.
- [C.7] Yuki Tatsukawa, I-Chao Shen, Anran Qi, Yuki Koyama, Takeo Igarashi, and Ariel Shamir. “FontCLIP: A Semantic Typography Visual-Language Model for Multilingual Font Applications.” Computer Graphics Forum, e15043, 2024.
- [C.6] Charles de Malefette, Anran Qi, Amal Dev Parakkat, Marie-Paule Cani, and Takeo Igarashi. “PerfectDart: Automatic Dart Design for Garment Fitting.” SIGGRAPH Asia 2023 Technical Communications, pp. 1–4, 2023. Best Paper Award.
- [C.5] Akihiro Kiuchi, Anran Qi, Eve Mingxiao Li, David Maruscsak, Christian Sandor, and Takeo Igarashi. “PerfectFit: Custom-Fit Garment Design in Augmented Reality.” SIGGRAPH Asia 2023 XR, pp. 1–2, 2023. Best XR Demo Award.
- [C.4] Eve Mingxiao Li, Anran Qi, Mauricio Sousa, and Tovi Grossman. “EnchantedBrush: Animating in Mixed Reality for Storytelling and Communication.” Graphics Interface 2023.
- [C.3] Yuta Fukushima, Anran Qi, I-Chao Shen, and Takeo Igarashi. “OVERPAINT: Automatic Multi-Layer Stencil Generation without Bridges.” SIGGRAPH Asia 2022 Technical Communications, pp. 1–4, 2022.
- [C.2] Sauradip Nag*, Nisarg A. Shah*, Anran Qi*, and Raghavendra Ramachandra. “How Far Can I Go? A Self-Supervised Approach for Deterministic Video Depth Forecasting.” NeurIPS 2022 Workshop on Machine Learning for Autonomous Driving.
- [C.1] Anran Qi, Yi-Zhe Song, and Tao Xiang. “Semantic Embedding for Sketch-Based 3D Shape Retrieval.” British Machine Vision Conference, vol. 3, 2018.

TECHNICAL PROGRAM COMMITTEE MEMBERSHIP & REVIEW

- EUROGRAPHICS 2025, 2026
- Pacific Graphics 2026

- Shape Modeling International (SMI) 2026
- Review:
Journal: TVCG, TIP, C&G
Conference: SIGGRAPH 2022,24,25,26, SIGGRAPH ASIA 2023,25,26, CHI2024,25,26, SCF 2025,26, PG 2026

INVITED TALKS

- Asiagraphics Workshop on Intelligent Graphics 2026, Soeul, Korea
- XR & AI Summer School 2024, Matera, Italy
- International Symposium on Intelligence Design 2024, virtual, China

TEACHING

- Teaching Assistant, Multimedia System, Queen Mary University of London, 2018
- Guest Lecturer, Applied Computer Graphics 4860-1084, the University of Tokyo, 2026

REFERENCE DETAILS

Dr. Adrien Bousseau — Senior Researcher, Inria, France adrien.bousseau@inria.fr
Prof. Takeo Igarashi — Professor, The University of Tokyo, Japan takeo@acm.org
Prof. Yi-Zhe Song — Professor, The University of Surrey, UK y.song@surrey.ac.uk