Ryo Suzuki

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EDUCATION

Ph.D student in Computer Science, University of Colorado Boulder August 2015 - Present

Advisor: Daniel Leithinger and Mark D. Gross

Thesis Committee: Hiroshi Ishii, Takeo Igarashi, Tom Yeh

M.A, University of Tokyo

March 2013

Advisor: Koji Yatani and Kandori Michihiro

B.Eng, Tokyo Institute of Technology

March 2011

GPA: 3.9

RESEARCH EXPERIENCE

University of Colorado Boulder, THING Lab Daniel Leithinger, Mark D. Gross, and Tom Yeh	August 2015 - Present
Adobe Research, Creative Intelligence Lab Rubaiat Habib, Li-Yi Wei, Stephen Diverdi, Danny Kaufman	May 2019 - August 2019
University of Tokyo, JST ERATO Yasuaki Kakehi and Yoshihiro Kawahara	December 2017 - October 2018
UC Berkeley, BiD Group Bjoern Hartmann	May 2016 - August 2016
Stanford University, HCI Group Michael S. Bernstein	May 2015 - August 2015
University of Tokyo, IIS-Lab Koji Yatani	September 2014 - May 2015
AIST, Media Interaction Group	January 2015 - March 2015

PUBLICATIONS

Jun Kato

Ryo Suzuki, Rubaiat Habib, Li-Yi Wei, Stephen Diverdi, Daniel Leithinger, "RealitySketch: Sketching Interactive Concept Visualizations in Augmented Reality.", (CHI'20 in submission)

Ryo Suzuki, Hooman Hedayati, James Bohn, Clement Zheng, Daniel Szafir, Ellen Yi-Luen Do, Mark D. Gross, Daniel Leithinger, "RoomShift: Room-scale Dynamic Haptics for VR with Furniture-moving Swarm Robots.", (CHI'20 in submission)

Ryo Suzuki, Ryosuke Nakayama, Dan Liu, Yasuaki Kakehi, Mark D. Gross, Daniel Leithinger, "Lift-Tiles: Constructive Building Blocks for Prototyping Room-scale Shape-changing Interfaces.", (TEI'20, acceptance rate:)

Ryo Suzuki, Clement Zheng, Yasuaki Kakehi, Tom Yeh, Ellen Do, Mark D. Gross, Daniel Leithinger, "Shape-Bots: Shape-changing Swarm Robots.", Proceedings of the ACM Symposium on User Interface Software and Technology. ACM, 2019. (UIST'19, acceptance rate: 24%)

Ryosuke Nakayama*, **Ryo Suzuki***, Satoshi Nakamaru, Ryuma Niiyama, Yoshihiro Kawahara, Yasuaki Kakehi, (*equally contributed) "MorphIO: Entirely Soft Sensing and Actuation Modules for Programming Shape Changes through Tangible Interaction.", Proceedings of The ACM Conference on

Designing Interactive Systems. ACM, 2018. (DIS'19, acceptance rate: 25%, **Best Paper Award:** Top 1%)

Ryo Suzuki, Junichi Yamaoka, Daniel Leithinger, Tom Yeh, Mark D. Gross, Yoshihiro Kawahara, Yasuaki Kakehi, "Dynablock: Dynamic 3D Printing for Instant and Reconstructable Shape Formation.", Proceedings of the ACM Symposium on User Interface Software and Technology. ACM, 2018. (UIST'18, acceptance rate: 20%)

Ryo Suzuki, Koji Yatani, Mark D. Gross, Tom Yeh, "Tabby: Explorable Design for 3D Printing Textures.", Proceedings of the Pacific Conference on Computer Graphics and Applications, 2018 (Pacific Graphics'18, acceptance rate: 26%)

Ryo Suzuki, Jun Kato, Mark D. Gross, Tom Yeh, "Reactile: Programming Swarm User Interfaces through Direct Physical Manipulation.", Proceedings of the CHI Conference on Human Factors in Computing Systems. ACM, 2018. (CHI'18, acceptance rate: 25%)

Hyunjoo Oh, Tung D. Ta, **Ryo Suzuki**, Mark D. Gross, Yoshihiro Kawahara, Lining Yao, "PEP (3D Printed Electronic Papercrafts): An Integrated Approach for 3D Sculpting Paper-based Electronic Devices.", Proceedings of the CHI Conference on Human Factors in Computing Systems. ACM, 2018. (CHI'18, acceptance rate: 25%)

Ryo Suzuki, Abigale Stangl, Mark D Gross, Tom Yeh, "FluxMarker: Enhancing Tactile Graphics with Dynamic Tactile Markers.", Proceedings of the International ACM SIGACCESS Conference on Computers and Accessibility. ACM, 2017. (ASSETS'17, acceptance rate: 26%)

Ryo Suzuki, Gustavo Soares, Andrew Head, Elena Glassman, Ruan Reis, Melina Mongiovi, Loris D'Antoni, Bjoern Hartmann, "TraceDiff: Debugging Unexpected Code Behavior Using Trace Divergences.", Proceedings of the IEEE Symposium on Visual Languages and Human-Centric Computing. IEEE, 2017. (VL/HCC'17, acceptance rate: 29%)

Andrew Head, Elena Glassman, Gustavo Soares, **Ryo Suzuki**, Lucas Figueredo, Loris D'Antoni, Bjoern Hartmann, "Writing Reusable Code Feedback at Scale with Mixed-Initiative Program Synthesis.", Proceedings of the ACM Conference on Learning at Scale. ACM, 2017. (L@S'17, acceptance rate: 22%)

Reudismam Rolim, Gustavo Soares, Loris D'Antoni, Oleksandr Polozov, Sumit Gulwani, Rohit Gheyi, **Ryo Suzuki**, Bjoern Hartmann, "Learning Syntactic Program Transformations from Examples.", Proceedings of the International Conference on Software Engineering. IEEE, 2017. (ICSE'17, acceptance rate: 19%)

Ryo Suzuki, Niloufar Salehi, Michelle S. Lam, Juan C. Marroquin, Michael S. Bernstein, "Atelier: Repurposing Expert Crowdsourcing Tasks as Micro-internships.", Proceedings of the CHI Conference on Human Factors in Computing Systems. ACM, 2016. (CHI'16, acceptance rate: 23%)

POSTERS, DEMOS, AND WORKSHOP PAPERS

Ryo Suzuki, "Collective Shape-changing Interfaces.", Doctoral Consortium for the Annual ACM Symposium on User Interface Software and Technology. ACM, 2019. (UIST'19 Doctoral Consortium)

Ryo Suzuki, Ryosuke Nakayama, Dan Liu, Yasuaki Kakehi, Mark D. Gross, Daniel Leithinger, "Lift-Tiles: Modular and Reconfigurable Room-scale Shape Displays through Retractable Inflatable Actuators.", Adjunct Proceedings of the Annual ACM Symposium on User Interface Software and Technology. ACM, 2019. (UIST'19 Poster)

Ryo Suzuki, Gustavo Soares, Elena Glassman, Andrew Head, Loris D'Antoni, Bjoern Hartmann, "Exploring the Design Space of Automatically Synthesized Hints for Introductory Programming Assignments.", Proceedings of the CHI Conference on Human Factors in Computing Systems. ACM, 2017. (CHI'17 Late-Breaking Work)

Stanford Crowd Research Collective (For the full author list, please see the publication), "Daemo: A Self-Governed Crowdsourcing Marketplace.", Adjunct Proceedings of the Annual ACM Symposium on User Interface Software and Technology. ACM, 2015. (UIST'15 Poster)

Ryo Suzuki, "Toward a Community Enhanced Programming Education.", Proceedings of the CHI Conference on Human Factors in Computing Systems. ACM, 2015. (CHI'15 Workshop)

Ryo Suzuki, "Interactive and Collaborative Source Code Annotation.", Proceedings of the International Conference on Software Engineering. IEEE, 2015. (ICSE'15 Poster)

Ryo Suzuki, "Network Thresholds and Multiple Equilibria in the Diffusion of Content-based Platforms.", Proceedings of the International Conference on Web and Internet Economics. Springer, 2014. (WINE'14 Poster)

AWARDS AND HONORS

JST ACT-I Funding (Mentor: Takeo Igarashi)	October 2018
Leave a Nest Fellowship	October 2018
Nakajima Foundation Scholarship	$November\ 2014$
KAKENHI Grants-in-Aid for Scientific Research	$April\ 2013$
JSPS Research Fellow DC1	$April\ 2013$
JASSO Fellow (Total Exemption for Particularly Outstanding Students)	March~2013
Tohso Foundation Scholorship	$April\ 2010$
Pusiness Model Competition Japan 2014 Microsoft Award	Fohmuamu 001/

Business Model Competition Japan 2014 Microsoft Award	February 2014
Tech Crunch Disrupt Tokyo 2013 Finalist	$November\ 2013$
1st Prize Winner of University of Tokyo Entrepreneur Dojo	October 2012

TEACHING EXPERIENCE

Teaching Assistant at University of Colorado Boulder Fundamentals of HCi for Prof. Shaun Kane	August 2019 - January 2019
Teaching Assistant at University of Colorado Boulder Soft Robotics for Prof. Mark D. Gross	January 2017 - May 2017
Teaching Assistant at University of Tokyo Microeconomic Policy (Graduate) for Prof. Dan Sasaki	October 2012 - February 2013
Teaching Assistant at International Christian University Statistics (Undergraduate) for Prof. Takuya Kaneko	October 2012 - February 2013
Teaching Assistant at University of Tokyo Mathematics II (Graduate) for Prof. Kazuya Kamiya	April 2012 - August 2012
Teaching Assistant at Tokyo Institute of Technology Advanced Macroeconomics (Graduate) for Prof. Takumi Naito	October 2010 - February 2011

TECHNICAL SKILLS

Programming Languages	Node.js/JavaScript, C/C++, Python, Ruby, Objective-C
Development Framework	OpenGL, WebGL, OpenCV, Tensorflow, React
Tools	OnShape, Solidworks, Adobe Illustrator, Adobe After Effects
Electronics	Altium Designer, Eagle