Jotaro Shigeyama

Curriculum Vitæ

Name:	Jotaro Shigeyama
Gender:	Male
Place and Date of Birth:	Yamaguchi, Japan — 14 September 1993
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email:	jotaro.shigeyama[at]hpi.de

Education

02/2018-
Ph.D Candidate
Hasso Plattner Institute, University of Potsdam
Potsdam, Germany
Prof. Dr. Patrick Baudisch

04/2017-03/2020
Master of Interdisciplinary Informatics
The University of Tokyo
Tokyo, Japan
Graduate School of Interdisciplinary Informatics
Thesis: Transcalibur:Presenting Shape with Transforming VR Controller based on Perception Model
Prof. Michitaka Hirose

04/2014–03/2017
Bachelor of Engineering
The University of Tokyo
Tokyo, Japan
Mechano Informatics Engineering
Thesis: Presenting Resistive force by modifying joint angle of an avatar
Prof. Michitaka Hirose

04/2009-03/2014
Associate of Engineering
Tokuyama College of Technology
Tokuyama, Yamaguchi, Japan
JSME Hatakeyama Award (The top student)
Mechanical and Electircal Engineering
Prof. Kurt Fischer

Work Experience

2016 Summer
teamLab *AI Software Engineer*, Tokyo, Japan
Worked with DNN face recognition system in the largest Japanese media art company.

2016 Summer
nana music.inc *iOS Software Engineer*, Tokyo, Japan
Improved and developed UI of Song and Music Collaboration SNS app.

2016 Winter
Object of Null.inc *Hardware Engineer*, Tokyo, Japan
Developed CNC Agricultual robot with farmbot.io project.

2014 to 2016
AgIC.inc *Hardware Engineer*, (Current company name; Elephantech), Tokyo, Japan
Developed applications for silver-nano conductive ink technology.

Awards and Honors

2019/05	CHI2019 best paper honorable mention Award Top 5% among the submitted papers ACM CHI2019, Glasgow, Scotland, UK
2018/11	Funai Foundation of Information Technologies Funai Overseas Scholarship Recipient Funai Foundation of Information Technologies, Tokyo, Japan
2018/08	Siggraph student research competition Semi-Finalist ACM SIGGRAPH2018, Vancouver, BC, Canada
2014/03	JSME Hatakeyama Award Best student award in Mechanical Engineering in Japan (2014) Japan Society of Mechanical Engineering

Publications

Publication for CHI/UIST,the top conferences for Human-Computer Interaction

[p5] Muhammad Abdullah, Martin Taraz, Yannis Kommana, Shohei Katakura, Robert Kovacs, **Jotaro Shigeyama**, Thijs Roumen , and Patrick Baudisch: Fastforce: Real-Time Reinforcement of Laser-Cut Structuresfifito be published in Proceedings of CHIfi21.

[p4] Thijs Roumen, Ingo Apel, **Jotaro Shigeyama**, Abdullah Muhammad, and Patrick Baudisch: Kerf-Canceling Mechanisms: Making Laser-Cut Mechanisms Operate Across Different Laser Cutters, In Proceedings of UISTfi20, October, 2020, Minneapolis, MN, US.

[p3] Thijs Roumen, **Jotaro Shigeyama**, Julius Romeo Cosmo Rudolph, Felix Grzelka, and Patrick Baudisch: SpringFit: Joints and Mounts that Fabricate on Any Laser Cutter, In Proceedings of UIST2019, October, 2019, New Orleans, LA, US.

[p2] **Jotaro Shigeyama**, Takeru Hashimoto, Shigeo Yoshida, Takuji Narumi, Tomohiro Tanikawa, and Michitaka Hirose: Transcalibur: A Weight Shifting Virtual Reality Controller for 2D Shape Rendering based on Computational Perception Model, In Proceedings of CHI2019, Glasgow, Scotland, UK. [Acceptance Rate: 23.8%] [CHI2019 Best Paper Honorable Mention]

[p1] Oliver Schneider, **Jotaro Shigeyama**, Robert Kovacs, Thijs Roumen, Sebastian Marwecki, Nico Boeckhoff, Daniel-Amadeus Gloeckner, Jonas Bounama and Patrick Baudisch, DualPanto: A Haptic Device that Enables Blind Users to Continuously Interact with Virtual Worlds, In Proceedings of UIST2018, October, 2018 [Acceptance Rate: 21.3%]

Demo Presentation for CHI/UIST/SIGGRAPH E-tech, the top venue for HCI

[d8] Thijs Roumen, **Jotaro Shigeyama**, Julius Romeo Cosmo Rudolph, Felix Grzelka, and Patrick Baudisch: SpringFit: Joints and Mounts that Fabricate on Any Laser Cutter, In Proceedings of UISTfi19, October, 2019, New Orleans, LA, US.

[d7] **Jotaro Shigeyama**, Takeru Hashimoto, Shigeo Yoshida, Takuji Narumi, Tomohiro Tanikawa, and Michitaka Hirose. 2019. Demonstration of Transcalibur: A VR Controller that Presents Various Shapes of Handheld Objects. In Extended Abstracts of the 2019 CHI Conference on Human Factors in Computing Systems (CHI EA fi19). Association for Computing Machinery, New York, NY, USA

[d6] Oliver Schneider, **Jotaro Shigeyama**, Robert Kovacs, Thijs Roumen, Sebastian Marwecki, Nico Boeckhoff, Daniel-Amadeus Gloeckner, Jonas Bounama and Patrick Baudisch, DualPanto: A Haptic Device that Enables Blind Users to Continuously Interact with Virtual Worlds, In Proceedings of UISTfi18, October, 2018

[d5] **Jotaro Shigeyama**, Takeru Hashimoto, Shigeo Yoshida, Taiju Aoki, Takuji Narumi, Tomohiro Tanikawa and Michitaka Hirose: Transcalibur : Weight Moving VR Controller for Dynamic Rendering of 2D Shape using

Haptic Shape Illusion, SIGGRAPH 2018 Emerging Technologies, August 2018

[d4] **Jotaro Shigeyama**, Takeru Hashimoto, Shigeo Yoshida, Taiju Aoki, Takuji Narumi, Tomohiro Tanikawa and Michitaka Hirose: Transcalibur : Dynamic 2D Haptic Shape Illusion of Virtual Object by Weight Moving VR Controller, SIGGRAPH 2018 Poster, August 2018, [SIGGRAPH Student Research Competition Semi-Finalist]

[d3] Yuji Suzuki, **Jotaro Shigeyama**, Shigeo Yoshida, Takuji Narumi, Tomohiro Tanikawa and Michitaka Hirose: Food Texture Manipulation by Face Deformation, SIGGRAPH 2018 Poster, August 2018

[d2] Nami Ogawa, **Jotaro Shigeyama**, Takuji Narumi and Michitaka Hirose: Swinging 3D Lamps: A Projection Technique to Create 3D Illusions on a Static 2D Image, SIGGRAPH Asia 2017 Emerging Technologies, November 2017

[d1] **Jotaro Shigeyama**, Nami Ogawa, Takuji Narumi, Tomohiro Tanikawa and Michitaka Hirose: Presenting a pseudo-haptic feedback in immersive VR environment by modifying avatarfis joint angle, IEEE World Haptics 2017, June 2017

Teaching

[t2] Building Interactive Devices and Computer Vision, WS2020/21, Hasso Plattner Institute.

[t1] Building Interactive Devices and Computer Vision, WS2019/20, Hasso Plattner Institute.

Advising

[a2] Oleksandr Martemianov, Project Seminar, SS2021/22

[a1] Martin Taraz and Paul Methfessel, Project Seminar, WS2020/21