Yun Suen Pai, Ph.D.

Tokyo, Japan · pai@kmd.keio.ac.jp · +8170-8484-9944 · https://www.yunsuenpai.com

Areas of Expertise

Augmented/Virtual/Mixed Reality, Physiological Sensing, Applied Machine/Deep Learning, Perception and Behavior Change, Assistive/Inclusive Technology

Work Experience

Graduate School of Media Design, Keio University

Yokohama, Japan

Project Senior Assistant Professor

May 2022 | Current

- Conduct Research under the Cybernetic Being Moonshot Project
- Led the Physionetic Interactions (research on physiology and cybernetic avatars, 17 members) research group within the Embodied Media Laboratory

Graduate School of Media Design, Keio University

Yokohama, Japan April 2021 | April 2022

Project Assistant Professor

- Conduct Research under the Cybernetic Being Moonshot Project
- Led the Empathic Interactions (research on emotions, 10 members) and Transcending Bodies (research on robotics, 6 members) research group within the Embodied Media Laboratory

Auckland Bioengineering Institute, University of Auckland Postdoctoral Research Fellow

Auckland, New Zealand June 2019 | March 2021

• Conduct Research in the Empathic Computing Laboratory

Graduate School of Media Design, Keio University

Yokohama, Japan

Employed Researcher

October 2018 | March 2019

• Conduct Research under the Kiban B Project "Deep Learning the Human Mind"

Graduate School of Media Design, Keio University

Yokohama, Japan

Research Assistant

August 2017 | September 2018

• Perform collaborative research and development with NTT Media Intelligence Laboratories

Faculty of Engineering, University of Malaya

Research Assistant

Kuala Lumpur, Malaysia August 2013 | August 2015

• Conduct research and development on a project-basis

MK (M) Electric HoneyWell Sdn. Bhd.

Intern Trainee

Kuala Lumpur, Malaysia June 2012 | September 2012

• Internship under the Global Product Design Centre (GPDC) Department

EDUCATION

Keio University

Yokohama, Japan

Ph.D. Media Design

September 2015 - September 2018

Thesis: Convex Interactions: Towards Efficient Human Motion In Peripersonal Space Using Virtual Reality

University of Malaya

Kuala Lumpur, Malaysia

Masters Engineering Science

August 2013 - August 2015

Thesis: Development of an Immersive Augmented Reality-Based Computer Numerical Control Simulation System

University of Malaya (CGPA 3.42/4.00)

Kuala Lumpur, Malaysia

BS Computer Aided Design and Manufacturing Engineering

July 2009 - July 2013

Thesis: Augmented Reality-Based Programming, Planning, and Simulation of a Robotic Work Cell

Teaching Experience

Keio University

- Empathetic Computing in Virtual Spaces (2022)
- Innovation Pipeline: Collaborative Prototyping 2D Prototyping with Figma (2022)

- Innovation Pipeline: Collaborative Prototyping 3D Prototyping with PlayCanvas (2022)
- Innovation Pipeline: Collaborative Prototyping Virtual Prototyping (2021)
- Innovation Pipeline: Collaborative Prototyping Design Sprint (2021)
- Masters Tutoring: Introduction to HCI (2018)
- Workshop (Master Level): Using WebVR with Vizor Interface (2016, 2017)
- Masters Tutoring: Research Methodology (2017)
- Supervised and mentored over 5 Ph.D. students
- Supervised and mentored over 20 Master students

University of Malaya

- Masters Tutoring: Using the KukaSIM simulation program (2015)
- Undergraduate Tutoring: Programming for a Programmable Interface Controller (PIC) (2015)
- Masters Tutoring: Finding the inverse kinematics of a KUKA robot arm (2014)

Professional Research Activities

- Paper reviewer for ISWC 2017, IMWUT (UbiComp) 2017, MobileHCI 2017, PervasiveHealth 2017, ISMAR 2018-2020, ISWC 2018, IMWUT (UbiComp) 2018, Siggraph Asia 2018 Emerging Technologies, MUM 2018 (PC member), TEI 2019, Transactions on Fuzzy Systems, Plos One, Frontiers Psychology, ACM Computing Surveys, IEEE Access, Transactions on Neural Systems & Rehabilitation Engineering, CHI 2019-2023, IMWUT (Ubicomp) 2019, ISWC 2019, MobileHCI 2019, VRST 2019-2020, IEEEVR 2019 & 2021, UIST 2020, AH 2020, OZCHI 2020.
- PC member for MUM 2018, Augmented Humans 2020 Poster and Demo, Siggraph Asia 2021 Emerging Technologies, Augmented Humans 2020 Demo, Siggraph Asia 2022 Emerging Technologies, Augmented Humans 2023, ICAT-EGVE 2022 Publicity
- Invited as a seminar speaker at the NUS-HCI lab (2022)
- Organized and hosted the Empathic Computing Seminar Series (2019 2021)
- Supported and attended the NZXR Summit 2020
- Supported and attended the Shonan Meeting 135 "Augmented Reality in Human-Computer Interaction".
- Presented at the CHI 17 Workshop on Amplification and Augmentation of Human Perception (May 2017)
- Supported and attended the Dagstuhl Seminar 17062 "Beyond VR and AR: Reimagining Experience Sharing". Coordinated and edited the Seminar Report.

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Institution Best Project

Augmented Reality Based

• Participated in UIST Doctoral Symposium 2016.	
WARDS	
Runner up for Healthy Aging Prize for Asian Innova Dementia Eyes: Experiencing Dementia through AR	HAPI 2022 September 2022
Runner up for Best Technical XR Demo HyperDrum: Interactive Synchronous Drumming in Virtual Reality using Everyday Objects	Siggraph Asia 2019 XR November 2019
Best Poster Award AnyOrbit: Fluid 6DOF spatial navigation of virtual environments using orbital motion	SUI 2017 October 2016
AUN/SEED-Net Full Scholarship Full scholarship for Ph.D. program	Japan International Cooperation Agency September 2015
Best Presentation Implementation of a Voice- Control System for Issuing Commands in a Virtual Manufacturing Simulation Process	ICMST 2014 June 2014
MyBrain15 MyMaster Scholarship Full scholarship for Masters program	Ministry of Higher Education Malaysia August 2013

Institution of Mechanical Engineers UK

Programming, Planning, and Simulation of a Robotic Work Cell

l August 2013

Best Undergraduate Thesis Award

Faculty of Engineering, University of Malaya June 2013

Best Undergraduate thesis at CAD/M Engineering

Grants and Fundings

Google ATAP Collaboration Project

Google ATAP / University of Auckland

Ignition Point / Keio University

Grant amount: \$100,000 for proposal entitled Multi-Scale,

Multi-Radar Interactive System

January 2021

Ignition Point Collaboration Project

Field-of-View using Virtual Reality

Grant amount: 5,000,000¥ for proposal entitled Increasing Human

April 2019

Keio Young Fellow Research program 2018

Keio University

Keio University

Grant amount: 500,000¥ for proposal entitled Convex Interactions:

Physiological Signal-Driven Virtual Reality in Social Spaces

July 2018

Keio Grant-in-Aid program 2017

Grant amount: 500,000¥ for proposal entitled Physiological

July 2017

Signal-Driven Virtual Reality in Social Spaces

Keio University

Keio Kenkyuu no Susume program 2017 Grant amount: 700,000¥ for proposal entitled Physiological

Signal-Driven Virtual Reality in Social Spaces

July 2017

Keio Grant-in-Aid program 2016

Grant amount: 300,000¥ for proposal entitled Physiological

Sensing-Based Virtual Reality

June 2016

Keio University

Keio University

Keio Kenkyuu no Susume program 2016

Grant amount: 500,000¥ for proposal entitled Physiological

Sensing-Based Virtual Reality

June 2016

Keio Young Fellow Research program 2016

Grant amount: 500,000¥ for proposal entitled Physiological

Sensing-Based Virtual Reality

Keio University

June 2016

Patent Filings

A device and program to simulate dementia experience

Patent Number: 2021-141977

Contributors: Ximing Shen, Pai Yun Suen, Kouta Minamizawa, Dai Kiuchi, Kanoko Oishi

Tactile presentation device, method and program

Patent Number: 2019-125855

Contributors: Takuro Nakao, Pai Yun Suen, Kai Kunze, Megumi Isogai, Daisuke Ochi, Hideaki Kimata

Video operating device, video operation method, and image manipulation programs

Patent Number: 2018-141395

Contributors: Kai Kunze, Pai Yun Suen, Takuro Nakao, Megumi Isogai, Daisuke Ochi, Hideaki Kimata

Using a computer program to provide image-based interaction

Patent Number: 2017-137097

Contributors: Daisuke Ochi, Megumi Isogai, Hideaki Kimata, Outram Benjamin Ian, Pai Yun Suen,

Kai Kunze, Kouta Minamizawa

JOURNAL PUBLICATIONS

1. Frisson Waves: Exploring Automatic Detection, Triggering and Sharing of Aesthetic Chills in Music Performances Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT 2022)

https://dl.acm.org/doi/abs/10.1145/3550324

Yan He, George Chernyshov, Jiawen Han, Dingding Zheng, Ragnar Thomsen, Danny Hynds, Muyu Liu, Yuehui Yang, Yulan Ju, Yun Suen Pai, Kai Kunze, Kouta Minamizawa, Jamie A Ward

2. Total VREcall: Using Biosignals to Recognize Emotional Autobiographical Memory

in Virtual Reality Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT 2022)

https://dl.acm.org/doi/abs/10.1145/3534615

Kunal Gupta, Sam W.T. Chan, Yun Suen Pai, Nicholas Strachan, John Su, Alexander Sumich, Suranga Nanayakkara, Mark Billinghurst

3. NapWell: an EOG-based sleep assistant exploring the effects of virtual reality on sleep onset $Virtual\ Reality$

https://link.springer.com/article/10.1007/s10055-021-00571-w

Yun Suen Pai, Marsel L. Bait, Juyoung Lee, Jingjing Xu, Roshan L Peiris, Woontack Woo, Mark Billinghurst, Kai Kunze

4. Assessing Hands-Free Interactions for VR using Eye Gaze and Electromyography $Virtual\ Reality$

https://link.springer.com/article/10.1007/s10055-018-0371-2

Yun Suen Pai, Tilman Dingler, Kai Kunze

5. Virtual planning, control, and machining for a modular-based automated factory operation in an augmented reality environment *Scientific Reports*

https://www.nature.com/articles/srep27380

Yun Suen Pai, Hwa Jen Yap, Siti Zawiah Md Dawal, S Ramesh, Sin Ye Phoon

6. Interactive solution approach for loop layout problem using virtual reality technology The International Journal of Advanced Manufacturing Technology https://link.springer.com/article/10.1007/s00170-016-9219-7 Sin-Ye Phoon, Hwa-Jen Yap, Zahari Taha, Yun Suen Pai

7. Augmented reality—based programming, planning and simulation of a robotic work cell Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture

http://journals.sagepub.com/doi/abs/10.1177/0954405414534642 Yun Suen Pai, Hwa Jen Yap, Ramesh Singh

- 8. Development of an Augmented Reality-Based G-Code Generator in a Virtual CNC Milling Simulation International Journal of Computer Science and Engineering (IJCSE) Yap Hwa Jen, Yun Suen Pai, Chang Siow-Wee, Yap Keem Siah
- 9. Framework of Augmented Reality Approach Towards Ergonomic Assessment of Driver Vehicle Package Design Jurnal Teknologi
 Chew Sze Soon, Raja Ariffin Raja Ghazilla, Yap Hwa Jen, Yun Suen Pai

Conference Publications

10. Dementia Eyes: Co-Design and Evaluation of a Dementia Education Augmented Reality Experience for Medical Workers to appear in CHI 2023

Ximing Shen, Yun Suen Pai, Dai Kiuchi, Kehan Bao, Tomomi Aoki, Hikari Meguro, Kanoko Oishi, Ziyue Wang, Sohei Wakisaka, Kouta Minamizawa

11. Seeing our Blind Spots: Smart Glasses-based Simulation to Increase Design Students' Awareness of Visual Impairment $UIST\ 2022$

https://dl.acm.org/doi/abs/10.1145/3526113.3545687

Qing Zhang, Giulia Barbareschi, Yifei Huang, Juling Li, Yun Suen Pai, Jamie A Ward, Kai Kunze

12. Furekit: Wearable Tactile Music Toolkit for Children with ASD EuroHaptics 2022 https://link.springer.com/chapter/10.1007/978-3-031-06249-0_35 Di Qi, Mina Shibasaki, Youchi Kamiyama, Sakiko Tanaka, Bunsuke Kawasaki, Chisa Mitsuhash

Di Qi, Mina Shibasaki, Youchi Kamiyama, Sakiko Tanaka, Bunsuke Kawasaki, Chisa Mitsuhashi, Yun Suen Pai, Kouta Minamizawa

13. KinVoices: Using Voices of Friends and Family in Voice Interfaces CSCW 2021 https://dl.acm.org/doi/abs/10.1145/3479590

Sam WT Chan, Tamil Selvan Gunasekaran, Yun Suen Pai, Haimo Zhang, Suranga Nanayakkara

14. Jammify: Interactive Multi-sensory System for Digital Art Jamming Interact 2021 https://dl.acm.org/doi/abs/10.1145/3479590 Sachith Muthukumarana, Don Samitha Elvitigala, Qin Wu, Yun Suen Pai, Suranga Nanayakkara 15. NeuralDrum: Perceiving Brain Synchronicity in XR Drumming Siggraph Asia 2020

https://dl.acm.org/doi/abs/10.1145/3428361.3428404

Yun Suen Pai, Ryo Hajika, Kunal Gupta, Prasanth Sasikumar, Mark Billinghurst

16. FingerFlex: Shape Memory Alloy-based Actuation on Fingers for Kinesthetic Haptic Feedback $MUM\ 2020$

https://dl.acm.org/doi/abs/10.1145/3428361.3428404

Takuro Nakao, Kai Kunze, Megumi Isogai, Shinya Shimizu, Yun Suen Pai

17. Multiplex Vision: Understanding Information Transfer and F-Formation With Extended 2-Way FOV VRST 2020

https://dl.acm.org/doi/abs/10.1145/3385956.3418954

Mark Armstrong, Keitaro Tsuchiya, Feng Liang, Kai Kunze, Yun Suen Pai

18. Measuring human trust in a virtual assistant using physiological sensing in virtual reality $I\!EEEV\!R$ 2020

https://ieeexplore.ieee.org/abstract/document/9089632

Kunal Gupta, Ryo Hajika, Yun Suen Pai, Andreas Duenser, Martin Lochner, Mark Billinghurst

19. OmniView: An Exploratory Study of 360 Degree Vision using Dynamic Distortion based on Direction of Interest AHs 2020

https://dl.acm.org/doi/abs/10.1145/3384657.3384796

Feng Liang, Stevanus Kevin, Holger Baldauf, Kai Kunze, Yun Suen Pai

20. In ai we trust: Investigating the relationship between biosignals, trust and cognitive load in vr $VRST\ 2019$

https://dl.acm.org/doi/abs/10.1145/3338286.3340129

Kunal Gupta, Ryo Hajika, Yun Suen Pai, Andreas Duenser, Martin Lochner, Mark Billinghurst

21. Private reader: Using eye tracking to improve reading privacy in public spaces

MobileHCI 2019

https://dl.acm.org/doi/abs/10.1145/3338286.3340129

Kirill Ragozin, Yun Suen Pai, Olivier Augereau, Koichi Kise, Jochen Kerdels, Kai Kunze

22. PinchMove: Improved Accuracy of User Mobility for Near-Field Navigation in Virtual Environments MobileHCI 2018

https://dl.acm.org/citation.cfm?id=3229470

Yun Suen Pai, Zikun Chen, Liwei Chan, Megumi Isogai, Hideaki Kimata, Kai Kunze

23. AnyOrbit: Orbital Navigation in virtual environments with eye-tracking ETRA 2018 https://dl.acm.org/citation.cfm?doid=3204493.3204555

Benjamin I Outram, Yun Suen Pai, Tanner Person, Kouta Minamizawa, Kai Kunze

24. Armswing: using arm swings for accessible and immersive navigation in AR/VR spaces $MUM\ 2017$

https://dl.acm.org/citation.cfm?id=3152864

Yun Suen Pai, Kai Kunze

25. Development of Augmented Reality Approach Towards Ergonomic Assessment of Driver Vehicle Package Design ICE and ICIE 2015

Chew Sze Soon, Raja Ghazilla Raja Ariffin, Yap Hwa Jen, Yun Suen Pai

26. Augmented Reality Assisted Factory Layout Planning and Analysis for a Flexible Manufacturing Cell $ICCSCM\ 2014$

Yun Suen Pai, Yap Hwa Jen, Singh Ramesh, Chang Siow-Wee, Cheong Kok Leong Royston, Taha Zahari

27. Implementation of a Voice-Control System for Issuing Commands in a Virtual Manufacturing Simulation Process Advanced Materials Research

https://www.scientific.net/AMR.980.165

Yun Suen Pai, Hwa Jen Yap, Ramesh Singh

28. Transcendental Avatar: Experiencing Bioresponsive Avatar of the Self for Improved Cognition $Siggraph\ Asia\ 2022\ XR$

https://dl.acm.org/doi/abs/10.1145/3550472.3558417

Kinga Skiers, Yun Suen Pai, Kouta Minamizawa

29. It's Me: VR-based Journaling for Improved Cognitive Self-Regulation Siggraph Asia 2022 Poster

https://dl.acm.org/doi/abs/10.1145/3550082.3564196

Yixin Wang, Yun Suen Pai, Kouta Minamizawa

30. HumanCopter: Wearable Drone System for Remote Multi-Directional Teleoperation ICAT 2022

https://diglib.eg.org/handle/10.2312/egve20221296

Keh Fei Wong, Lu Zhou, Ziyue Wang, Kouta Minamizawa, Yun Suen Pai

31. asmVR: Light Triggers in Virtual Reality to Induce ASMR ICAT 2022

https://diglib.eg.org/handle/10.2312/egve20221295

Danyang Peng, Kouta Minamizawa, Yun Suen Pai

32. PhysioSense Controller: Self-Actuating Button Based on Player Physiology for Improved Avatar Control ICAT 2022

https://diglib.eg.org/handle/10.2312/egve20221298

Ziyue Wang, Kouta Minamizawa, Yun Suen Pai

33. Investigating the Relation Between Gender Expression of Mixed Reality Avatars and Sexuality of Male Users ISMAR 2022

https://ieeexplore.ieee.org/abstract/document/9974400

Anish Kundu, Yun Suen Pai, Kouta Minamizawa

34. PSCVR: Physiological Sensing in Collaborative Virtual Reality ISMAR 2022

https://ieeexplore.ieee.org/abstract/document/9974235

Prasanth Sasikumar, Yun Suen Pai, Huidong Bai, Mark Billinghurst

35. Experience Visual Impairment via Optical See-through Smart Glasses UIST 2022

https://programs.sigchi.org/uist/2022/index/content/85482

Qing Zhang, Xiongqi Wang, Thad Starner, Yifei Huang, George Chernyshov, Giulia Barbaresch, Yun Suen Pai, Jing Huang, Junichi Yamaoka, Jamie A Ward, Kai Kunze

36. SpiceWare: Simulating Spice Using Thermally Adjustable Dinnerware to Bridge Cultural Gaps UIST 2022

https://dl.acm.org/doi/abs/10.1145/3526114.3558701

Shunyi Yang, Yun Suen Pai, Kouta Minamizawa

37. RaITIn: Radar-Based Identification for Tangible Interactions CHI 2022

https://dl.acm.org/doi/abs/10.1145/3491101.3519808

Tamil Selvan Gunasekaran, Ryo Hajika, Yun Suen Pai, Eiji Hayashi, Mark Billinghurst

38. GazeSync: Eye Movement Transfer Using an Optical Eye Tracker and Monochrome Liquid Crystal Displays *IUI 2022*

https://dl.acm.org/doi/abs/10.1145/3490100.3516469

Qing Zhang, Yifei Huang, George Chernyshov, Juling Li, Yun Suen Pai, Kai Kunze

39. WizardOfVR: An Emotion-Adaptive Virtual Wizard Experience Siggraph Asia 2021 XR https://dl.acm.org/doi/abs/10.1145/3478514.3487628

Kunal Gupta, Yuewei Zhang, Yun Suen Pai, Mark Billinghurst

40. Dementia Eyes: Perceiving Dementia with Augmented Reality Siggraph Asia 2021 XR https://dl.acm.org/doi/abs/10.1145/3478514.3487617

Ximing Shen, Yun Suen Pai, Dai Kiuchi, Kanoko Oishi, Kehan Bao, Tomomi Aoki, Kouta Minamizawa

41. Frisson Waves: Sharing Frisson to Create Collective Empathetic Experiences for Music Performances Siggraph Asia 2021 E-Tech

https://dl.acm.org/doi/abs/10.1145/3478514.3487617

Yan He, George Chernyshov, Dingding Zheng, Jiawen Han, Ragnar Thomsen, Danny Hynds, Yuehui Yang, Yun Suen Pai, Kai Kunze, Kouta Minamizawa

42. BridgedReality: A Toolkit Connecting Physical and Virtual Spaces through Live Holographic Point Cloud Interaction Siggraph Asia 2021 Poster

https://dl.acm.org/doi/abs/10.1145/3476124.3488656

Mark Armstrong, Lawrence Quest, Yun Suen Pai, Kai Kunze, Kouta Minamizawa

43. ARMixer: Live Stage Monitor Mixing through Gestural Interaction in Augmented Reality Siggraph Asia 2021 Poster

https://dl.acm.org/doi/abs/10.1145/3476124.3488632

Weihan Huang, Stephanie Bourgeois, Yun Suen Pai, Kai Kunze, Kouta Minamizawa

44. VRTwitch: Enabling Micro-motions in VR with Radar Sensing Siggraph Asia 2021 Poster

https://dl.acm.org/doi/abs/10.1145/3476124.3488650

Ryo Hajika, Tamil Selvan Gunasekaran, Alaeddin Nassani, Yun Suen Pai, Mark Billinghurst

45. Towards understanding physiological responses to emotional autobiographical memory recall in mobile vr scenarios *MobileHCI 2021*

https://dl.acm.org/doi/abs/10.1145/3447527.3474864

Kunal Gupta, Sam W.T. Chan, Yun Suen Pai, Alexander Sumich, Suranga Nanayakkara, Mark Billinghurst

46. Tactile music toolkit: supporting communication for autistic children with audio feedback IEEE World Haptics 2021

https://ieeexplore.ieee.org/abstract/document/9517267/

Di Qi, Danny Hynds, Mina Shibasaki, Yun Suen Pai, Kouta Minamizawa

47. Comado: Communication System for Ambient Connection between Distance Locations IEEE World Haptics 2021

https://ieeexplore.ieee.org/abstract/document/9517203

Fuko Yamamura, Taku Tanichi, Yun Suen Pai, Kouta Minamizawa

48. Adapting Fitts' Law and N-Back to Assess Hand Proprioception CHI 2021

https://dl.acm.org/doi/abs/10.1145/3411763.3451699

Tamil Selvan Gunasekaran, Ryo Hajika, Chloe Dolma Si Ying Haigh, Yun Suen Pai, Danielle Lottridge, Mark Billinghurst

49. Radarmin: A Radar-Based Mixed Reality Theremin Setup ISMAR 2020

https://ismar20.org/demonstrations/

Ryo Hajika, Prasanth Sasikumar, Amit Barde, Yun Suen Pai, Eiji Hayashi, Mark Billinghurst

50. AffectivelyVR: Towards VR Personalized Emotion Recognition VRST 2020

https://dl.acm.org/doi/abs/10.1145/3385956.3422122

Kunal Gupta, Jovana Lazarevic, Yun Suen Pai, Mark Billinghurst

51. MazeRunVR: An Open Benchmark for VR Locomotion Performance, Preference and Sickness in the Wild $\it CHI~2020$

https://dl.acm.org/doi/abs/10.1145/3334480.3383035

Kirill Ragozin, Kai Kunze, Karola Marky, Yun Suen Pai

52. HyperDrum: Interactive Synchronous Drumming in Virtual Reality using Everyday Objects Siggraph Asia 2019 XR

https://dl.acm.org/doi/abs/10.1145/3355355.3361894

Ryo Hajika, Kunal Gupta, Prasant Sasikumar, Yun Suen Pai

53. PanoFlex: Adaptive panoramic vision to accommodate 360 Field-of-view for humans $VRST\ 2019$

https://dl.acm.org/doi/abs/10.1145/3359996.3364767

Feng Liang, Stevanus Kevin, Kai Kunze, Yun Suen Pai

54. ShareHaptics: a modular haptic feedback system using shape memory alloy for mixed reality shared space applications Siggraph 2019 Poster

https://dl.acm.org/doi/abs/10.1145/3306214.3338597

Takuro Nakao, Stevanus Kevin, Megumi Isogai, Shinya Shimizu, Hideaki Kimata, Kai Kunze, Yun Suen Pai

55. Virtual gaze: exploring use of gaze as rich interaction method with virtual agent in interactive virtual reality content VRST 2018

https://dl.acm.org/citation.cfm?id=3281587

Stevanus Kevin, Yun Suen Pai, Kai Kunze

56. UbiTrain: Leveraging the Physical and Virtual Environment for Ubiquitous Sports Training Ubicomp 2018

https://dl.acm.org/citation.cfm?id=3267646

Yun Suen Pai, Takuro Nakao, Megumi Isogai, Hideaki Kimata, Kai Kunze

57. Make-a-Face: A Hands-free, Non-Intrusive Device for Tongue/Mouth/Cheek Input Using EMG Siggraph 2018 Poster

https://dl.acm.org/citation.cfm?id=3230784

Takuro Nakao, Yun Suen Pai, Megumi Isogai, Hideaki Kimata, Kai Kunze

58. AnyOrbit: Orbital Navigation in virtual environments with eye-tracking ETRA 2018 https://dl.acm.org/citation.cfm?doid=3204493.3209579

Benjamin I Outram, Yun Suen Pai, Tanner Person, Kouta Minamizawa, Kai Kunze

59. face2faceVR: using AR to assist VR in ubiquitous environment usage *Ubicomp 2017* https://dl.acm.org/citation.cfm?id=3123155

Yun Suen Pai, Megumi Isogai, Daisuke Ochi, Hideaki Kimata, Kai Kunze

60. GazeSphere: navigating 360-degree-video environments in VR using head rotation and eye gaze Siggraph 2017 Poster

https://dl.acm.org/citation.cfm?id=3102183

Yun Suen Pai, Benjamin I Outram, Benjamin Tag, Megumi Isogai, Daisuke Ochi, Kai Kunze

61. CleaVR: collaborative layout evaluation and assessment in virtual reality Siggraph 2017

https://dl.acm.org/citation.cfm?id=3102186

Yun Suen Pai, Benjamin I Outram, Benjamin Tag, Megumi Isogai, Daisuke Ochi, Hideaki Kimata, Kai Kunze

62. In 360: A 360-degree-video platform to change students preconceived notions on their career CHI 2017

https://dl.acm.org/citation.cfm?doid=3027063.3053211

Fathima Assilmia, Yun Suen Pai, Keiko Okawa, Kai Kunze

63. A Major Challenge for Amplification Technologies - Designing Interactions for Social Spaces CHI 2017 Workshop

Yun Suen Pai, Benjamin Tag, George Chernyshov, Kai Kunze

64. Brain Activity Tracking Using Smart Eyewear CHI 2017 Workshop George Chernyshov, Benjamin Tag, Yun Suen Pai, Kai Kunze

65. Initial Model of Social Acceptability for Human Augmentation Technologies CHI 2017 Workshop

Chloe Eghtebas, Yun Suen Pai, Kaisa Väänänen, Thies Pfeiffer, Joachim Meyer, Stephan Lukosh

66. Squint to Zoom: Augmenting our Sense of Vision with Zoom Caps CHI 2017

 $https://dl.acm.org/citation.cfm?doid{=}3027063.3053211$

George Chernyshov, Yun Suen Pai, Benjamin Tag, Kai Kunze

67. Physiological Signal-Driven Virtual Reality in Social Spaces UIST 2016

https://dl.acm.org/citation.cfm?id = 2984787

Yun Suen Pai

68. Transparent reality: Using eye gaze focus depth as interaction modality UIST 2016 https://dl.acm.org/citation.cfm?id=2984754

Yun Suen Pai, Benjamin Outram, Noriyasu Vontin, Kai Kunze

69. Any
Orbit: Fluid 6DOF spatial navigation of virtual environments using orbital
 motion $SUI\ 2016$

https://dl.acm.org/citation.cfm?id=2989195

Benjamin I Outram, Yun Suen Pai, Kevin Fan, Kouta Minamizawa, Kai Kunze

70. GazeSim: simulating foveated rendering using depth in eye gaze for VR Siggraph 2016 Poster

https://dl.acm.org/citation.cfm?id=2945153

Yun Suen Pai, Benjamin Tag, Benjamin Outram, Noriyasu Vontin, Kazunori Sugiura, Kai Kunze

OTHER SERVICES

- Manage the Keio Media Design Project Room Facility (2021 to current)
- Co-organized Keio Media Design 2022 Plenary Meeting
- Collaborate with Mediva for publication [40]
- Collaborate with Google ATAP for publication [37, 44, 49]
- Collaborate with CSIRO Australia for publications [18, 20]
- Collaborate with Ignition Point for publications [17, 19, 53]
- Collaborate with NTT Media Intelligence Laboratories for publications [16, 22, 54, 56, 57, 59, 60, 61] and patent filing (September 2016 April 2017, September 2017 February 2018, July 2018 September 2018)
- Supervising Masters and PhD student (September 2015 Current)
- Invited to conduct a workshop entitled "Virtual Reality: The What, Why and How" at the EDGEOf Workshop, Shibuya, Japan
- Invited to give a talk at the Department of Computer Science, National Chiao Tung University, Taiwan (November 2017)
- Invited to give a talk at Google X (May 2017)
- Organized a collaborative workshop between University of Malaya and Aerospace Malaysia Innovation Centre (AMIC) (December 2016 January 2017)
- Collaborate with Fujitsu Design for publications [68, 70] (December 2015 April 2016)
- Started PaperOwl, a proof-reading service (July 2015 February 2018)
- Developed an AR-based Drilling Simulator in collaboration with AirBus Malaysia (November 2014)
- Awarded for best National IMechE Student Chapter (October 2013)
- Dean List for a Semester (February 2013)
- Founded the Institute of Mechanical Engineers (IMechE) Student Chapter at the Faculty of Engineering, University of Malaya (June 2010 July 2013)
- Participated in Robocon 2010 and 2011 (September 2010, August 2011)