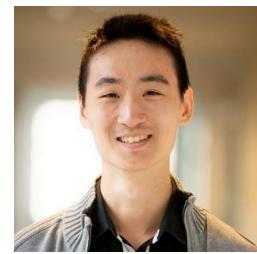


Pascal Chiu | CV Resume

- » **Status :** Engineering Student, Research Graduate
- » **Fields :** Computer & Information Sciences, UI, VR/AR, Interaction Design, HCI
- » **Affiliations :** INSA de Lyon : Dept. of Computer Sciences - Tohoku University : GSIS



»»» Experience

2018	IT Company Internship (4 months)	Mobile Devices Ingénierie
	<ul style="list-style-type: none"> » Intelligence-based client management tool development using data mining & machine learning » Ruby on Rails, Python, R, PostgreSQL, Docker, kubernetes, git 	
2017	Laboratory Internship (2 months)	LIRIS
	<ul style="list-style-type: none"> » Algorithm design & evaluation for aggregating queries on distributed graph databases » Big Data, Semantic Web, AI, Advanced Algorithmics, Benchmarking, C/C++ 	
2016	Student Project Manager (6 months)	INSA de Lyon
	<ul style="list-style-type: none"> » Design & Development Industrial project for INSA Robotics and Mecatronics (13 ppl) » Team & Project Management, Industrial Design & Drawing, Assembly, Arduino 	

»»» Education

2018 - Present	Master Course under Double Degree (2.5 years / Sendai, Japan)	Tohoku University
	<ul style="list-style-type: none"> » Graduate School of Information Sciences, Information Systems Department » Research Laboratory : Interactive Content Design, Publications at ACM SUI, SIGGRAPH » Research Field : HCI, UI/UX, Interaction Design, VR, Computer Vision, Deep Learning 	
2014 - Present	M.Eng. majoring in Computer Science Engineering (Lyon, France)	INSA de Lyon
	<ul style="list-style-type: none"> » Core classes incl. Algorithmics, Image rendering, Systems Engineering, AI, Data Mining » Specialisation in AI tools : Neural Networks, Pathfinding, Procedural generation, GOAP ... 	
2012	Scientific Program with English specialisation (Cambridge, UK)	St. Andrew's College
	<ul style="list-style-type: none"> » Intensive courses undertaken with various science subjects taught in English 	

»»» Professional Skills

Languages

- » Chinese Mother tongue, practice since childhood
- » French Second native language
- » English Fluently written and spoken
Cambridge FCE (ESOL), [TOEIC 990](#)
- » Japanese Intermediate level written and spoken
- » Spanish Intermediate level written and spoken

Technical Skills

- » Coding Essentials : [C/C++](#), C#, Java, [Python](#), PHP
- » Front : Javascript, JSON, XML, HTML, RDF, JQuery
- » HCI : Unity, VR/AR, Interaction Design, Prototyping
- » Creation : Design (Adobe CC Suite, SAI, Clip Studio)
3D and Rendering (SketchUp, Kerkythea)

»»» Hobbies & Interests

- » Piano Jazz : Practiced between 2008 and 2014
- » Illustration : Digital Painting, Character Design
- » Game Dev : Scripting, [Engine & Tool Coding](#) :
[Unity](#) (C#), C/C++ (SDL), Java (Slick/LWJGL, [OpenGL](#))

Research Appendix

»» Publications

Nov. 2019

ACM SA '19: SIGGRAPH Asia (XR Demonstration + Talk)

- » Pascal Chiu, Isamu Endo, Kazuki Takashima, Kazuyuki Fujita, and Yoshifumi Kitamura. 2019. [FreeMo: Extending Hand Tracking Experiences Through Capture Volume and User Freedom](#). In SIGGRAPH Asia 2019 XR (SA '19). Association for Computing Machinery, New York, NY, USA, 11–12.
- » [DOI](https://doi.org/10.1145/3355355.3361882) <https://doi.org/10.1145/3355355.3361882>

Oct. 2019

ACM SUI '19: Symposium on Spatial User Interaction (Short Paper)

- » Pascal Chiu, Kazuki Takashima, Kazuyuki Fujita, and Yoshifumi Kitamura. 2019. [Pursuit Sensing: Extending Hand Tracking Space in Mobile VR Applications](#). In Symposium on Spatial User Interaction (SUI '19). Association for Computing Machinery, New York, NY, USA, Article 1, 1–5.
- » [DOI](https://doi.org/10.1145/3357251.3357578) <https://doi.org/10.1145/3357251.3357578>

Jul. 2019

ACM SIGGRAPH '19 (Poster Presentation)

- » Maria Mannone, Eri Kitamura, Jiawei Huang, Ryo Sugawara, Pascal Chiu, and Yoshifumi Kitamura. 2019. [CubeHarmonic: a new musical instrument based on Rubik's cube with embedded motion sensor](#). In ACM SIGGRAPH 2019 Posters (SIGGRAPH '19). Association for Computing Machinery, New York, NY, USA, Article 53, 1–2.
- » [DOI](https://doi.org/10.1145/3306214.3338572) <https://doi.org/10.1145/3306214.3338572>

»» Relevant Classes

Below is a non-exhaustive listing (see transcripts) of graduate level classes closely related to my research interests.

MEng - INSA de Lyon

- » Human Computer Interaction
- » Logical Approach to AI
- » Signal Processing
- » Statistics, Probability
- » Linear Algebra and Image Rendering
- » Algorithms for Artificial Intelligence and Graphs
- » Algorithms and Data Structures

MSc - Tohoku University

- » Computer Vision
- » Algebra and discrete mathematics
- » Intelligent Systems Science
- » Higher Order Vision Science
- » Software Construction

»» Engineering & Research Projects

2019	27th International collegiate Virtual Reality Contest	Student Contest
	<ul style="list-style-type: none"> » 2 entries: a multiplayer MR competitive experience with simulated body shrinking & a multi-sensory haptic experience based on the rubber arm illusion » Team of 6 people, contributions include: project direction, MR interaction engine development for ARrietty, CG effects (shaders) » More details: http://ivrc.net/archive/Tabletop%20ARrietty2019/, http://ivrc.net/archive/2019/ 	
2016	Industrial Collaborative Engineering Project	INSA de Lyon
	<ul style="list-style-type: none"> » Design, manufacturing, testing, and presentation of an interactive juggling robot partner » Team of 13 people, contributions include: team management and production duties, design of the robot frame, manufacturing, arduino motor control algorithm » More details: https://www.youtube.com/watch?v=riOeHHU9Ezo 	

»» Conference & Volunteering Experiences

Jul. - Aug. 2019 **Student Volunteer - SIGGRAPH 2019 Los Angeles**Dec. 2018 **Student Volunteer - SIGGRAPH Asia 2018 Tokyo**