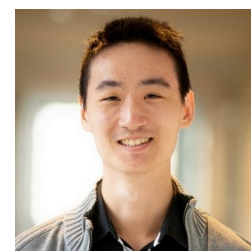


Pascal Chiu | CV Resume



- » **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 Mechatronics (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>
- 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>
- 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>

»»» 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
- » 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
- » 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**