





Robin Roussel

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EXPERIENCE

Adobe Research, San Francisco, USA **2019**
Research Intern
Topic: "Generative modeling of chain reaction contraptions"

University College London, London, UK **2017-19**
Postgraduate Teaching Assistant
Course: "Introduction to Machine Learning" (COMP0088)

Dassault Systèmes Corporate Research, Vélizy, France **2015**
Research Intern
Topic: "Template-based reconstruction of indoor scenes from RGB-D data"

University of St Andrews, St Andrews, UK **2014**
Research Intern
Topic: "Shape reconstruction and body-dimension measurements of cetaceans from 3D sonar scanner data"

CAOR Mines ParisTech, Paris, France **2013**
Research Intern
Topic: "Road marking detection and rendering from 3D lidar data acquired with a mobile mapping system"

SKILLS

LANGUAGES
English (TOEIC 975/990; TOEFL 115/120)
French (native)
Italian, Japanese, Mandarin (basic)

PROGRAMMING
Python 3 (Jupyter, Numpy, Matplotlib, Panda3D, Pytorch, Scipy)
JavaScript (Three.js)
Bash, C++, Java, LaTeX, HTML, CSS

SOFTWARE
Docker, Git, Vim
Blender, GIMP, Inkscape, PowerPoint
Linux, OS X, Windows

DIGITAL FABRICATION
3D printing, Laser cutting

EDUCATION

University College London, London, UK **2015-20**
PhD in Computer Science
Thesis: "Crafting chaos: computational design of contraptions with complex behaviour"
Advisors: Niloy J. Mitra, Marie-Paule Cani, Jean-Claude Léon

Mines ParisTech, Paris, France **2012-15**
MSc in Executive Engineering


COMMUNITY SERVICE


Tertiary reviewer
CAD and Applications 2019
SIGGRAPH Asia 2018
Eurographics 2017

President of the LGBT+ Society
Mines ParisTech 2014

President of the Film Society
Mines ParisTech 2013

PUBLICATIONS

Robin Roussel, Marie-Paule Cani, Jean-Claude Léon, Niloy J. Mitra 2019
"Designing Chain Reaction Contraptions from Causal Graphs"
ACM Transactions on Graphics (Proc. SIGGRAPH '19; also selected for oral presentation at VIS '19) 

Robin Roussel, Marie-Paule Cani, Jean-Claude Léon, Niloy J. Mitra 2018
"Exploratory design of mechanical devices with motion constraints"
Computers & Graphics 

Robin Roussel, Marie-Paule Cani, Jean-Claude Léon, Niloy J. Mitra 2017
"Spirou: constrained exploration for mechanical motion design"
ACM Symposium on Computational Fabrication (SCF '17) 