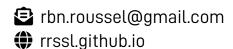
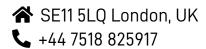
# Robin Roussel





### **EXPERIENCE**

Adobe Research, San Francisco, USA

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
Research Intern

Topic: "Shape reconstruction and body-dimension measurements of cetaceans from 3D sonar scanner data"

CAOR Mines ParisTech, Paris, France

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 contra	ıptions
with complex behaviour"	
Advisors: Niloy J. Mitra, Marie-Paule Cani, Jean-Claude L	_éon
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"	G
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"	$\mathcal{G}$
Computers & Graphics	
Robin Roussel, Marie-Paule Cani, Jean-Claude Léon, Niloy J. Mitra	2017
"Spirou: constrained exploration for mechanical motion design"	Ø
ACM Symposium on Computational Fabrication (SCF '17)	

2013