Jean-Baptiste Boin

Stanford Ph.D. graduate interested in computer vision, mobile visual search, augmented reality.

		ΓΙΟ	

Stanford University, Ph.D., Electrical Engineering Graduated from the Image, Video and Multimedia Systems research group (advisor: Bernd Girod). GPA: 4.05/4.00	2012-2019
Stanford University, M.S., Electrical Engineering	2012-2014
École polytechnique (France), B.S. Multidisciplinary training and specialization in Electrical Engineering. GPA: 4.18/4.00	2009-2012
RELEVANT PROJECTS	
Image descriptor aggregation for Efficient Retrieval (Ph.D. thesis) Developed a theoretical framework for aggregation and applied insights to real-world retrieval tasks	2015-2019
5 1 55 5 5 5	2015-2019 2018-2019

Art++ (supported by the Brown Institute for Media Innovation)

Responsible for the technical part on the development of a platform for creation of AR museum tours Developed a mobile application using state-of-the-art vision algorithms

Effective Fisher Vector Aggregation for 3D Object Retrieval (ICASSP 2017)

Developed an image-based retrieval system achieving high compression of a video database

WORK EXPERIENCE

Google (USA) June-September 2017

Intern in the Mobile Vision research team

Integration and enhancements of existing systems for multi-object tracking

STMicroelectronics (France)

Intern in a research team specialized in radiation hardened and ultra low voltage hardware design

- Participation in a project aimed at reinforcing a microprocessor to make it more resilient to errors
- Elaboration and implementation of a robust custom test protocol to be run on the microprocessors

Red Tech Consulting (Saudi Arabia)

Junior consultant in a telecom consulting company for a project expanding the Saudi Internet network

July-August 2011

April-August 2012

2014-2016

2015-2016

TEACHING EXPERIENCE

Teaching Assistant (Stanford University)

The Fourier Transform and its Applications (EE261)

Grader (Stanford University)

Introduction to Linear Dynamical Systems (EE263)

Digital Signal Processing (EE264)

• The Fourier Transform and its Applications (EE261)

2015, 2016, 2018, 2019 Summer 2013

3011111101 2013

Summer 2013

Fall 2013

Fall 2013

HONORS AND AWARDS

•	Best Paper Session, CBMI (Efficient Panorama Database Indexing for Indoor Localization)	2019
•	Best Paper Award, MIPR (Recurrent Neural Networks for Person Re-identification Revisited)	2019
•	Best Paper Award for Industry, ICIP (Depth Augm. Stereo Panorama for Cinematic VR with Focus Cues)	2016
•	SCIEN Industry Affiliates Meeting: Apple Poster Award (Depth Augmented Stereo Panoramas for	December 2015
	Cinematic VR), Intel Poster Award (Art++: Augmented reality in museums)	
•	Ranked 6 th /135 at the Stanford Electrical Engineering Ph.D. qualifying examination	January 2013
•	First rank at the École polytechnique entrance examination	July 2009

SKILLS

Programming: General purpose tools (Python, C++, MATLAB)

Mobile development (Android: Java and native C++)

Machine learning framework (Torch/PyTorch, Caffe, Tensorflow)

Front-end and back-end web development (HTML, CSS, JavaScript, PHP, MySQL)

Languages: English (fluent); French (native); Italian (intermediate); Turkish (intermediate); Japanese (basic)