

Intl Mobility with USA Universities

September 2017- February 2018

ETSETB – CFIS joint call

Eduard Alarcón, USA liaison ETSETB, former Associate Dean Intl

Miguel Angel Barja, Director, CFIS



UNIVERSITAT POLITÈCNICA
DE CATALUNYA
BARCELONATECH

Campus d'Excel·lència Internacional



- Research-oriented Master's thesis
- Research-oriented Bachelor's thesis
 - J1 visiting scholar visa
 - Student has to cover living expenses, but TA / RA possible.
- No courses
 - Would require expensive tuition
 - Would require special visa
- No MoU: acceptance on a one-by-one ahdoc basis

Requisites

- Academic file
- Research experience
- Genuine willingness to continue a research path

- Northeastern University –Boston–
 - signal processing for underwater communications
 - biomedical image/video processing
 - energy-harvesting wireless sensor networks



Northeastern University

- Massachusetts Institute of Technology – MIT Cambridge
 - Computer graphics and massive-data distributed image processing
 - Complex aerospace systems
 - Optoelectronic chips
 - IoT
- UMASS, Boston
 - Electromagnetism, photonics, radar



- Georgia Tech, Atlanta
 - Software-defined networks for 5G
 - Nano-scale communication networks –molecular and THz-
- Poly Brooklyn, NY
 - Power conversion for Energy systems
- New Jersey Institute of Technology
 - Bioengineering, wet lab-on-chip
- Harvard University (Harvard Medical School, Neurology dept)
 - Neuromuscular disorders, physiological monitoring, system identification.



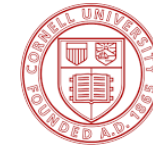
- University of Illinois Urbana-Champaign
 - Wireless network-on-chip for massive-core computer architecture
- Intel corp, Santa Clara, CA
 - Internet of Video Things
- Los Alamos National Laboratory, NM
 - Metasurfaces for Arbitrary Control of Electromagnetic THz Waves
- NASA, Washington DC
 - Goddard Space Flight Center, Washington DC



- University California Berkeley
 - ML for SDN



- Cornell University, Ithaca
 - complex aerospace systems, nanosats swarms
 - Bioastronautics, spacesuits



Cornell University

- State University New York, SUNY Buffalo (AirForce)
 - Graphene Thz wireless networks and Neural Optogenetic

University at Buffalo
The State University of New York

- University of Nebraska
 - biological molecular communication networks



- University of Southern California
 - image processing
- Purdue University
 - image processing



Balcells program

- University of Colorado, Boulder (bio-IT)
- University of Colorado, Colorado Springs (open)
- University of California Irvine (all, bio-centric)

- Illinois Institute of Technology, Chicago

- Prof. Eduard Alarcón
- C4 – 105 C. Nord UPC
- eduard.alarcon@upc.edu
- Office hours:
 - Friday Dec 2th: 9h-12h
 - Monday Dec 5th: 11:30h-13h
 - Wednesday Dec 14th: 16h-17h

- Why USA?
- Why research? Forward-looking research plans.
- Uniqueness in your academic file beyond the apparent
- Research topic interest:
 - Background experience
 - Future interests
 - Focus!