Telecom BCN at BARCELONATECH

Mobility USA:
September 2019 / February 2020

November 7th 2018
1. Presentació universitats d'EUA (pel professor Eduard Alarcón)

2. Presentació 10 places GRAU a EUA (PURDUE) (Sotsdirector José A. Lázaro)

3. Presentació Doble Titulació MASTER a EUA (UC Irvine, UCCS, CU Boulder, UC Davis, Beques Balsells) (Sotsdirector José A. Lázaro)
10 places GRAU a EUA (PURDUE)
<table>
<thead>
<tr>
<th>World Rank</th>
<th>Institution</th>
<th>Country</th>
<th>Total Score</th>
<th>Score on HiCi</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Massachusetts Institute of Technology (MIT)</td>
<td>USA</td>
<td>100</td>
<td>88.7</td>
</tr>
<tr>
<td>2</td>
<td>Stanford University</td>
<td>USA</td>
<td>92</td>
<td>100</td>
</tr>
<tr>
<td>3</td>
<td>University of California-Berkeley</td>
<td>USA</td>
<td>84.5</td>
<td>65.1</td>
</tr>
<tr>
<td>4</td>
<td>University of Illinois at Urbana-Champaign</td>
<td>USA</td>
<td>83.3</td>
<td>65.1</td>
</tr>
<tr>
<td>5</td>
<td>The University of Texas at Austin</td>
<td>USA</td>
<td>82.9</td>
<td>71.7</td>
</tr>
<tr>
<td>6</td>
<td>Georgia Institute of Technology</td>
<td>USA</td>
<td>81.1</td>
<td>52.3</td>
</tr>
<tr>
<td>7</td>
<td>University of California, Santa Barbara</td>
<td>USA</td>
<td>80.6</td>
<td>72.9</td>
</tr>
<tr>
<td>8</td>
<td>The Imperial College of Science, Technology and Medicine</td>
<td>UK</td>
<td>79.9</td>
<td>61.1</td>
</tr>
<tr>
<td>9</td>
<td>University of Michigan-Ann Arbor</td>
<td>USA</td>
<td>78.8</td>
<td>48.9</td>
</tr>
<tr>
<td>10</td>
<td>Carnegie Mellon University</td>
<td>USA</td>
<td>78.7</td>
<td>48.3</td>
</tr>
<tr>
<td>11</td>
<td>Northwestern University</td>
<td>USA</td>
<td>77.9</td>
<td>63.6</td>
</tr>
<tr>
<td>12</td>
<td>Nanyang Technological University</td>
<td>Singapore</td>
<td>77.5</td>
<td>38</td>
</tr>
<tr>
<td>13</td>
<td>Pennsylvania State University - University Park</td>
<td>USA</td>
<td>76.8</td>
<td>57.9</td>
</tr>
<tr>
<td>14</td>
<td>Purdue University - West Lafayette</td>
<td>USA</td>
<td>76.3</td>
<td>47.4</td>
</tr>
</tbody>
</table>
USA Universities: PURDUE

• GRAU -> 1 Semestre:
• 2 Optional Common + TFG (Project):
• [https://engineering.purdue.edu/ECE/Academics/Undergradautes/UGO/CourseInfo/coursesUndergrad](https://engineering.purdue.edu/ECE/Academics/Undergradautes/UGO/CourseInfo/coursesUndergrad)
• 100 Courses + 7 projects subjects (Fitting TFG)
• Useful links: [https://www.studyabroad.purdue.edu/incoming/inc_links.cfm](https://www.studyabroad.purdue.edu/incoming/inc_links.cfm)
1st Experience:
- Patricia & Gabriel (Autumn 2018)
- Alex & Lucas (Spring 2018)

E.g. Registration in Purdue:
- **ECE 49022 “Senior Design Project”** (Mandatory for evaluating as TFG at ETSETB)
- Optionals (for 12 ECTS), e.g.:
  - **ECE 379 “Vertically Integrated Projects”:** “...en grupos estamos haciendo un proyecto de machine learning, en nuestro caso, un programa que reconozca la lectura de labios.”
  - **ECE 511 “Psychophysics”:** “Una de las mejores profesoras que hemos tenido nunca, graduada en MIT y experta en haptics, nos enseña como el ser humano percibe ciertos estímulos”
  - **CS 471 “Introduction to Artificial Intelligence”**
Doble Titulació MASTER a EUA
(UC Irvine, UCCS, CU Boulder, UC Davis, Beques Balsells)
USA Universities: DD Master

- Master in USA -> recognized 1 course: 30 ECTS + TFM in MET
- Balsells Graduate Fellowship
  - 1.5 - 2 years to the U.S. to obtain Master’s degree (1.5 - 2 years)
USA Universities: DD Master

- What for?
  - Get a job
  - Learn more, become an expert and leader in your field
- … in USA …
- While keeping Professional Competences in Telecom in EU
USA Universities: DD Master

- With Balsells Fellowship Program
- Tailored for students from Catalonia
- Financial support available:

Pete Balsells
Generalitat de Catalunya

University of Colorado
Colorado Springs

University of Colorado
Boulder
Balsells Graduate Fellowship

“Long-term visits of 1.5 - 5 years to the U.S. to obtain Master’s degree (1.5 - 2 years) and/or PhD degree (4 – 5 years) from a U.S. university”

-> Master’s degree (1.5 - 2 years)
The Fellowship includes:

- Monthly stipend: $1,700-2,125 per month
- Tuition, Fees & Insurance: $27,000-36,000 per year
- Travel allowance: $1,500 per year
- Total value: $45,000-62,000 per year
- Fellowship available for up to 2 years
- Research & teaching assistantships available after 2 years for students continuing to the PhD
- 15 to 20 new engineering fellowships each year
Balsells Graduate Fellowship

Who can apply?

Spanish citizens who are permanent residents of Catalonia; speak English, Catalan and Spanish; and are graduates from Catalan or other European universities majoring in engineering or related fields.
# Timeline for Graduate (MS/PhD) application

For students currently in 4\textsuperscript{th} year or 1\textsuperscript{st} year of Master’s

<table>
<thead>
<tr>
<th>What</th>
<th>When</th>
</tr>
</thead>
<tbody>
<tr>
<td>This presentation</td>
<td>Sep 2018</td>
</tr>
<tr>
<td>Take GRE and TOEFL or IELTS exams</td>
<td>Nov/Dec 2018</td>
</tr>
<tr>
<td>Complete graduate application</td>
<td>Dec 2018 / Jan 2019</td>
</tr>
<tr>
<td>Admissions decision by the university</td>
<td>Feb/Mar 2019</td>
</tr>
<tr>
<td>Admitted students apply for Balsells Fellowship</td>
<td>Mar 2019</td>
</tr>
<tr>
<td>Decisions on Balsells Fellowships announced</td>
<td>Apr 2019</td>
</tr>
<tr>
<td>Fall term of graduate school starts</td>
<td>Aug/Sep 2019</td>
</tr>
</tbody>
</table>
USA Universities: DD Master

- Options for DD:

<table>
<thead>
<tr>
<th>University</th>
<th>Master Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>UC Irvine</td>
<td>Master Biomedical Engineering at Samueli School of Eng (UCI): <a href="http://engineering.uci.edu/dept/bme/graduate">http://engineering.uci.edu/dept/bme/graduate</a></td>
</tr>
<tr>
<td>UCCS Colorado Springs</td>
<td>Master of Science in Electrical Engineering: <a href="https://www.uccs.edu/ece/graduate-programs/msee_overview.html">https://www.uccs.edu/ece/graduate-programs/msee_overview.html</a></td>
</tr>
<tr>
<td>CU Colorado Boulder</td>
<td>Master of Science (MS) or Master of Engineering (ME) in electrical engineering and information technology: <a href="https://www.colorado.edu/academics/programs/electrical-engineering">https://www.colorado.edu/academics/programs/electrical-engineering</a></td>
</tr>
<tr>
<td>UC Davis</td>
<td>To be confirmed</td>
</tr>
</tbody>
</table>
Doble Titulación MASTER a EUA  
(IIT Chicago)
USA Universities: DD Master

**Illinois Institute of Technology (IIT) -(S) (MET)**

- Master of Science in Electrical Engineering (32 c.h.)
- Master of Science in Computer Engineering (32 c.h.)
- Master of Biomedical Imaging & Signals (30 c.h.)
- Master of Network Engineering (30 c.h.)
- Master of Telecommunications & Software Engineering (30 c.h.)
- Master of Information Technology & Management (30 c.h.)
- Master of Cyber Forensics and Security (30 c.h.)
- Master of Information Technology and Management (30 c.h.)

**Mobilitat: Presentació del programa de doble titulació de màster - Illinois Institute of Technology de Chicago:**

31st OCT - 12:00 - Aula Àgora (B3)
Thank you for listening. Any questions?
http://etsetb.upc.edu