Faculty Representatives

Professor Robert Davis, CU Boulder
Professor Anita Oberbauer, UC Davis
Professors Roger Rangel and Sergio Gago, UC Irvine
Professor and Interim Dean Charles Zhou, UCCS
What to do after graduation?

- Get a job
- Learn more, become an expert and leader in your field
Why Graduate School in the USA?

• Opportunity to travel
• Learn more, better yourself, and benefit society
• Live abroad
• Expand your career options
• Achieve competitive positions and salaries
Why the Balsells Fellowship Program?

- Tailored for students from Catalonia
- Financial support available:

Pete Balsells

Generalitat de Catalunya

University of Colorado

Colorado Springs

University of California

Irvine

University of California

Davis

University of Colorado

Boulder
• Born in Barcelona in 1928
• Moved to United States at age 18
• Graduated from CU Boulder in 1952
  – B.S. degree in Mechanical Engineering
• Started **Bal Seal Engineering Company** in California in 1958 with his wife, Joan
  – Located near Irvine, California, and Colorado Springs, Colorado, the company today employs over 500 people
• Started the Balsells Fellowship Program at UCI in 1996
• Started the Balsells Graduate Fellowship Program at CU Boulder in 2010; at UCCS in 2013; and at UCD in 2015
• Received the Francesc Macià Medal in 2003
• Awarded the Creu de Sant Jordi in 2013
• Honorary doctorates from CU Boulder (2014) and UdG (2016)
Balsells Fellowship Program

Balsells Mobility Program
Short-term visits of 4-6 months to the U.S. to carry out final project for Bachelor’s or Master’s degree and to explore possibility of returning to the U.S. for a Master’s and/or PhD.

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.

Balsells Postdoctoral Fellowship (UC Irvine)
One-year visit for PhD holders to conduct research at UC Irvine under the guidance of a faculty member.
**Mobility:** Short-term visit of 4-6 months to U.S. to do final project for Catalan undergraduate or Master’s degree, and to explore possibility of returning to the U.S. for M.S. and/or Ph.D.

**Graduate Fellowship:** Long-term visit of 2-5 years to U.S. to obtain M.S. degree (1.5-2 years) and/or PhD degree (4-5 years) from U.S. university.
Balsells Fellowships 1996-2018

UC Irvine
132 MS and PhD fellows
13 post-doctoral fellows
64 mobility fellows

CU Boulder
47 MS and PhD fellows
45 mobility fellows

UCCS
25 MS and PhD fellows
31 mobility fellows

UC Davis
3 MS fellows
2 mobility fellows

Catalan Universities:
UAB, UB, UdG, UdL, UPC, UPF, URL, URV
From Catalonia to California and Colorado

Map showing locations in the USA: Davis, CA, Boulder, CO, and Colorado Springs, CO.
Irvine - Orange County - Southern California

- Pop: 267,000 (Irvine)
- 3.2 Million (Orange Co.)
- 60 km south of Los Angeles
- A hub of high tech companies
- Surrounded by beach, mountains, arts, and entertainment
University of California, Irvine Snapshot

www.uci.edu

- 36,000 students
- 15 schools and programs
- 3,100 teaching faculty members
- 7th among all U.S. public universities (USNews&WR 2018)
- 3 Nobel prizes, 2 National Medal of Science
Henry Samueli School of Engineering

Five Departments:
- Biomedical Engineering
- Chemical Engineering & Materials Science
- Civil & Environmental Engineering
- Electrical Engineering & Computer Science
- Mechanical & Aerospace Engineering

Research Areas:
- MEMS
- BioRobotics
- Energy Efficiency
- BioMedical
- ... 

Figures:
- 3,600 Undergraduates
- 1,000 Graduate students
- 150 Faculty Members

engineering.uci.edu
Donald Bren School of Information & Computer Sciences

Figures:
2,400 Undergraduates
500 Graduate students
100 Faculty Members

Three Departments:
• Computer Science
• Informatics
• Statistics

Research Areas:
• Algorithms
• AI & ML
• Biomedical
• Informatics
• Graphics
• HCI
• Security
• ….

www.ics.uci.edu
Boulder, Colorado

- 105,000 people
- 1,655 m elevation
- 40 km from Denver
- 300 days of sunshine per year
- Recreation
- Culture
University of Colorado Boulder

- Founded 1876
- 33,000 students
- 5 Nobel Prize Winners
- 8 Schools & Colleges

- Balsells Graduate Fellowship Program started 2010.
- Special strengths: aerospace, bioengineering chemical, civil, computer, electrical/telecom, materials and mechanical engineering.
College of Engineering and Applied Science

9 Departments/Programs
- Aerospace Engineering Sciences
- Alliance for Technology, Learning and Society
- Chemical and Biological Engineering
- Civil, Environmental, and Architectural Engineering
- Computer Science
- Electrical, Computer, and Energy Engineering
- Interdisciplinary Telecommunications
- Materials Science and Engineering
- Mechanical Engineering

4,850 undergraduates
1,960 graduate students
370 faculty members

engineering.colorado.edu

Top-ranked engineering school in the entire Rocky Mountain region of the United States
Colorado Springs, Colorado

- 460,000 people
- 1,839 m elevation
- 110 km from Denver
- Home to the U.S. Olympic Training Center
- A city for people who love the outdoors – great outdoor recreation year round
- Pikes Peak
- Garden of the Gods
University of Colorado / Colorado Springs

- Balsells Graduate Fellowship Program.
- Special strengths: Computer Science, Electrical Engineering, and Mechanical Engineering, cutting-edge applied research in the College of Engineering and Applied Science.

- Founded 1965
- 12,000 students
- 6th Western regional public universities *USN&WR 2018*
- 6 Schools & Colleges
College of Engineering and Applied Science

3 Departments

Electrical & Computer Engineering
Mechanical & Aerospace Engineering
Computer Science

Local connections to industry, including Bal Seal Engineering R&D Facility.

Personal attention by faculty on research projects

www.uccs.edu/eas
Davis – Yolo County – Northern California

- Pop: 66,000 (Davis) – 200,000 (Yolo Co.)
- 18 km from Sacramento; 110 km from San Francisco
- In the center of agricultural production
- Close to mountains and coast
University of California, Davis Snapshot

- www.ucdavis.edu
- 37,400 students
- 104 undergraduate majors
- 96 graduate programs
- 10,200+ degrees awarded annually
- Top 10 US public university
- #2 Ranking University in the World for Research and Teaching in Agricultural Sciences
UC Davis College of Agricultural and Environmental Sciences

- 15 academic departments
- Centers and Institutes – many
- People
  - 381+ faculty / 800 staff
  - >7,300 undergraduate students
  - 1,100+ graduate students
- 5,000 acres on campus
  - 3,700 acres for Agricultural research and teaching
  - Classrooms / Laboratories
  - Greenhouses / Growth chambers
Balsells Mobility Program

- Undergraduates or master’s students from Catalonia
- Undertake final project or master’s thesis typically for one term (4-6 months) at UC Irvine, CU Boulder, UCCS, or UC Davis
- UC Irvine: balsells.eng.uci.edu
- CU Boulder: www.colorado.edu/engineering-international/balsells
- UCCS: https://www.uccs.edu/balsellseng/mobility-program
- UC Davis: Associate Dean Susan Ebler at seebler@ucdavis.edu
- Transportation and partial living expenses provided (approximately $1,000 per month)
- **Great way to explore returning for graduate study!**
Students interested in the Balsells Mobility Program should:

• Be interested in future Master’s or PhD study in the USA and intend to apply for the Balsells Graduate Program
• Have a strong academic record and at least intermediate English proficiency
• Provide letter of interest, curriculum vita, and academic transcript (all in English) to:
  – UC Irvine: Balsells Fellowship Program at balsells@uci.edu
  – CU Boulder: Mr. Andrew Wingfield at andrew.wingfield@colorado.edu
  – UCCS Colorado Springs: Mr. Christopher Nelson at balsells@uccs.edu
  – UC Davis: Associate Dean Susan Ebler at seebler@ucdavis.edu
**Graduate Programs**

**Master’s:** 1.5 – 2 years with thesis

- Courses
- Research
- Thesis
- Industry
- Government

**Ph.D.:** 4-5 years total

- Courses
- Preliminary Exam.
- Qualifying Exam.
- Research
- Thesis
- Defense
- Industry
- Government
- Academia
Balsells Graduate Fellowship

The Fellowship includes:
- Monthly stipend: $1,700-2,250 per month
- Tuition, Fees & Insurance: $27,000-36,000 per year
- Travel stipend: $1,500 per year
- Total value: $45,000-62,000 per year
- Fellowship available for up to 2 years
- Research & teaching assistantships available starting 3rd year of PhD
- 15 to 20 new fellowships each year

Postdoctoral Fellowship in Engineering (UC Irvine)
- Monthly stipend: $4,150 per month
- Health Insurance: $10,000-25,000 per year
- Travel stipend: $1,500 per year
- Total value: $75,000 per year
- 2 Fellowships each year
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 4th year

<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>
### Timeline for Mobility and Graduate application

**For students currently in 3rd year**

<table>
<thead>
<tr>
<th>What</th>
<th>When</th>
</tr>
</thead>
<tbody>
<tr>
<td>This presentation</td>
<td>Sep 2018</td>
</tr>
<tr>
<td>Apply for Mobility</td>
<td>Feb 2019</td>
</tr>
<tr>
<td>Start Mobility</td>
<td>Fall 2019 or Spring 2020</td>
</tr>
<tr>
<td>Take GRE and TOEFL or IELTS exams</td>
<td>Dec 2019</td>
</tr>
<tr>
<td>Complete graduate application</td>
<td>Dec 2019 / Jan 2020</td>
</tr>
<tr>
<td>Admissions decision by the university</td>
<td>Feb/Mar 2020</td>
</tr>
<tr>
<td>Admitted students apply for Balsells Fellowship</td>
<td>Mar 2020</td>
</tr>
<tr>
<td>Decisions on Balsells Fellowships announced</td>
<td>Apr 2020</td>
</tr>
<tr>
<td>Fall term of graduate school starts</td>
<td>Aug/Sep 2020</td>
</tr>
</tbody>
</table>
# Timeline for Postdoctoral application

For researchers with a doctoral degree

<table>
<thead>
<tr>
<th>What</th>
<th>When</th>
</tr>
</thead>
<tbody>
<tr>
<td>This presentation ........................................................................................................</td>
<td>Sep 2018</td>
</tr>
<tr>
<td>Find a faculty host at UC Irvine.............................................................................</td>
<td>Oct 2018 - Mar 2019</td>
</tr>
<tr>
<td>Complete application materials ..................................................................................</td>
<td>Oct 2018 - Mar 2019</td>
</tr>
<tr>
<td>• Research Project Description</td>
<td></td>
</tr>
<tr>
<td>• Curriculum Vitae</td>
<td></td>
</tr>
<tr>
<td>• Publication Record</td>
<td></td>
</tr>
<tr>
<td>• 2 reference letters</td>
<td></td>
</tr>
<tr>
<td>• Invitation letter from your host at UCI</td>
<td></td>
</tr>
<tr>
<td>Apply for Balsells Postdoctoral Fellowship online..................................................</td>
<td>Mar 2019</td>
</tr>
<tr>
<td>Decisions on Balsells Fellowships announced..........................................................</td>
<td>Apr 2019</td>
</tr>
<tr>
<td>Research program starts in Fall quarter ....................................................................</td>
<td>Sep 2019</td>
</tr>
</tbody>
</table>
Admissions—How To

Requirements for admission to any of the Master’s Programs:

• Undergraduate transcripts (original and English translation)
• GRE Scores
• TOEFL/IELTS Scores
• 3 Letters of Recommendation
  – Highlighting your potential for performing independent, thoughtful research, and ability to think beyond formal course assignments
• Candidate statement (Statement of Purpose)
  – How you prepared for the graduate degree (courses, experiences)
  – Interests and career goals (why you want to pursue this degree)
  – Fit (why you are a good match for the program)
  – Your personal history that helped you decide to pursue this degree
Coursework requirements for admission differ for each of the Masters graduate programs:

- **Food Science & Technology M.S.**
  
  [http://foodscience.ucdavis.edu/graduate/courseprep.html](http://foodscience.ucdavis.edu/graduate/courseprep.html)
  
  (BS in Physical Science, Biological Science, or Engineering)

- **Biological Systems Engineering M.S.:**
  
  [http://bae.engineering.ucdavis.edu/graduate/admission-requirements/](http://bae.engineering.ucdavis.edu/graduate/admission-requirements/)
  
  (coursework in math, physics, chemistry, and engineering)

- **Viticulture & Enology M.S.:**
  
  
  (coursework in biology, chemistry, biochemistry, economics, math, microbiology, plant science, statistics, and industry experience)

**Balsells Website for UC Davis:** [http://balsells.ucdavis.edu](http://balsells.ucdavis.edu)
Information on GRE, TOEFL & IELTS exams:

Information on applying to UC Irvine:
http://www.grad.ucl.edu/admissions/applying-to-uci/

Information on applying to CU Boulder:
http://www.colorado.edu/admissions/graduate/international

Information on applying to UCCS:
https://www.uccs.edu/balsellseng/graduate-fellowship

Information on applying to UC Davis:
http://balsells.ucdavis.edu
Balsells Fellowship

For additional information please contact:

University of California, Irvine
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balsells.eng.uci.edu

University of Colorado Boulder
brittany.bergstrom@colorado.edu
colorado.edu/engineering/balsells

University of Colorado Colorado Springs
balsells@uccs.edu
https://www.uccs.edu/balsellseng

University of California, Davis
nerabaud@ucdavis.edu
http://balsells.ucdavis.edu