Request to join the department of Electrical Engineering at UC Riverside as a Cooperating faculty

July 17, 2015

General Information
Name: Elisa Franco
Department: Mechanical Engineering
Email address: efranco@engr.ucr.edu
Lab web site: http://www.engr.ucr.edu/~efranco/

To Whom It May Concern:

I would like to renew my appointment as a Cooperating faculty in the EE Department at UCR. My research is at the interface of control theory and synthetic biology. In the past two years, I have supported and advised an EE graduate student, Vahid Mardaniou. In the past I collaborated with Prof. Jay Farrel and Prof. A. Roy Chowdhury in the area of distributed control of camera networks, and I will welcome future opportunities to work with them.

My CV with a list of most relevant published work is attached; my complete UC Bioform is also attached in a separate file. Please let me know if you have additional questions.

Best regards,

Elisa Franco
University of California, Riverside
BIOGRAPHY FOR ACADEMIC PERSONNEL
U1501-5 (R10/02)

PLEASE PRINT OR TYPE

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<tr>
<th>Campus</th>
<th>Department</th>
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<tr>
<td>RIVERSIDE</td>
<td>Mechanical Eng.</td>
<td>Assistant Professor, Step II</td>
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Name: FRANCO ELisa

Last Name: 
First Name: 
Middle Name: 
Mr./Mrs./Miss/Ms. (optional):

Prior University Experience? Yes □ No ☒ If "Yes", list on the following page.

Permanent Home Address
Viale Trieste 88 Gradiasca d'Isonzo ITALY 34072 +39 0481 93688
Street: 
City: 
State: 
Zip: 
Phone: 

Current Home Address
497 E California Bl, apt 321 Pasadena CA 91106 +1 626 215 0543
Street: 
City: 
State: 
Zip: 
Phone: 

Current Business Address
Bourns College of Engineering Riverside CA 92521 951-827-5830
Street: 
City: 
State: 
Zip: 
Phone: 

Date of Birth: 13 December 1978 Are you a citizen of the U.S.? Yes □ No ☒

If Not a Citizen of the U.S., Date Entered U.S.: ~ 9 September 2005 Type of Visa: Green card

Name and permanent address of person to be contacted in case of emergency:

Marina Narduzzi

Name: 
Street: Viale Trieste 88 City: Gradiasca d'Isonzo State: ITALY Zip: 34072 Phone: +39 349 7809901

Relatives employed by the University:

Name: 
Relationship: 
Department: 

PRIVACY NOTICE
The State of California Information Practices Act of 1977 (effective July 1, 1978) requires the University to provide the following information to individuals who are asked to supply information about themselves:

The principal reason for requesting the information on this form is for purposes of academic personnel administration and University public relations. University policy authorizes maintenance of this information. For academic personnel administrative purposes, furnishing all information on this form is mandatory and failure to provide it may result in denial of the action for which you are completing the form.

Information on education, honors, awards, and/or publications has been declared releasable by the courts, and therefore, will be released to the public, upon request.

Individuals have the right to review their own records in accordance with Academic Personnel Manual Section 160. Information on this policy can be obtained from campus or Office of the President Academic Personnel Offices.

The officials responsible for maintaining the information contained on this form are the campus Academic Vice Chancellors.

NONDISCRIMINATION STATEMENT
The University of California, in compliance with Titles VI and VII of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, and the Age discrimination in Employment Act of 1967, does not discriminate on the basis of race, color, national origin, religion, sex, handicapped, or age in any of its policies, procedures or practices; nor does the University, in compliance with Section 402 of the Vietnam Era Veterans Readjustment Act of 1974, and Section 12940 of the State of California Government Code, discriminate against any employees or applicants for employment because they are disabled veterans or veterans of the Vietnam era, or because of the medical condition (as defined in Section 12926 of the California Government Code), their ancestry, or their marital status; nor does the University discriminate on the basis of citizenship, within the limits imposed by law or University policy; nor does the University discriminate on the basis of sexual orientation. This nondiscrimination policy covers admission, access, and treatment in University programs and activities, and application for the treatment in University employment.

In conformance with University policy and pursuant to Executive Orders 11246 and 11375, Section 503 of the Rehabilitation Act of 1973, and Section 402 of the Vietnam Era Veterans Readjustment Act of 1974, the university of California is an affirmative action/equal opportunity employer.

Inquiries regarding the University's equal opportunity policies on academic employee-related matters may be directed to: SVP-AA (510) 987-9020

RETENTION: Academic Personnel - Senate Member: 5 years after separation to permanent.
Non-Senate Member: 5-10 years after separation.
Other Copies: 0-5 years after separation.

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PREVIOUS APPLICABLE EMPLOYMENT

Please show a full account of your time from the date of your first academic (or otherwise relevant) employment up to the present, including any periods when you may not have been employed. Show most recent position first, followed by prior employment. Indicate part-time appointments and leaves of absence. Show salary or approximate annual earnings in all cases. Please include all previous University of California employment. You may attach supplementary information.

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Name : Elisa Franco
Department : Mechanical Engineering

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<tr>
<th>DATES OF ATTENDANCE</th>
<th>NAME OF SCHOOL, COLLEGE, UNIVERSITY, OR HOSPITAL (INTERN &amp; RESIDENT)</th>
<th>LOCATION</th>
<th>MAJOR SUBJECT OR FIELD</th>
<th>DEGREES OR CERTIFICATES</th>
<th>DATE RECEIVED</th>
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<tr>
<td>1997-2002</td>
<td>UNIVERSITY OF TRIESTE</td>
<td>TRIESTE, ITALY</td>
<td>POWER SYSTEMS ENGINEERING</td>
<td>LAUREA (MS)</td>
<td>DECEMBER 2002</td>
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<tr>
<td>2005-2011</td>
<td>CALIFORNIA INSTITUTE OF TECHNOLOGY</td>
<td>PASADENA, CA</td>
<td>CONTROL AND DYNAMICAL SYSTEMS</td>
<td>PHD</td>
<td>SUMMER 2011</td>
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Please indicate areas of sub-specialization, if any. Also include special licenses or permits. Synthetic and systems biology

Memberships: Please list membership in scholarly societies, accreditation boards, civic organizations, etc. You may exclude any organization the name or character of which may indicate the race, religion, or national origin of its members.
IEEE Control Systems Society

Honors, Awards: Please list honors or awards such as Fulbright grants, Woodrow Wilson scholarships, special lectureships, medals, etc., and dates received.

NSF CAREER award, 2015
Hellman Fellowship, 2013
Regents Faculty Development Fellowship, 2012
ERDISU scholarship, University of Trieste, 1998-2002.
Name  Elisa Franco

Department  Mechanical Engineering

PUBLISHED WRITINGS and/or CREATIVE ACTIVITIES

Published writings and/or creative activities may be listed here or appended separately.

SEE CV

Signature:  [Signature]

Date:  7/17/2015
Elisa Franco  
155 S De Lacey Ave, Ste 2000, Pasadena, CA 91105  ✉ efranco@ucr.edu  ☎ (626)215-0543

Education
Ph.D. California Institute of Technology, Control and Dynamical Systems  
Advisor: Prof. R. M. Murray and Prof. E. Winfree  
Thesis: “Analysis, design and in vitro implementation of robust biochemical networks”  
October 2011

Ph.D. University of Trieste, Information Engineering - Trieste, Italy  
Advisor: Prof. T. Parisini  
Thesis: “A stabilizing distributed receding horizon control scheme for cooperative systems”  
March 2007

Laurea degree, University of Trieste, Power Systems Engineering - Trieste, Italy  
Graduated Summa cum Laude  
Thesis Advisor: Prof. T. Parisini  
Thesis: “Multi-model hybrid receding-horizon control of nonlinear systems: stability analysis”  
December 2002

Employment
Assistant Professor, University of California at Riverside  
Department of Mechanical Engineering  
Cooperating faculty in Electrical Engineering and Bioengineering  
Fall 2011–present

Advertising.com (AOL subsidiary), Research and Development Intern  
Estimation algorithms for performance of online advertisement campaigns  
Summer 2008

Co-director of the Caltech Project for Effective Teaching  
2008 - 2010

Research Interests
- Dynamic nucleic acid nanomaterials
- Molecular oscillators
- Feedback in biological networks
- Distributed model predictive control for multi-agent systems

Selected Publications

Selected journal publications

Selected conference publications (referred proceedings)

Awards, Honors and Grants
• NSF CAREER award, 2015 ($500,000 over five years).
• UCR seed grant (co-PI), 2014 ($5,000 + $12,000 over two years).
• Hellman fellow, 2013 ($30,000 over one year).
• DOE, BES Biomaterials program, Standard grant (PI): “Programmable dynamic self-assembly of DNA nanostructures” ($411,000 over three years)
• NSF, CMMI Dynamical Systems, Standard grant (PI): “Design and synthesis of robust and tunable nucleic acid-based oscillators for bionanotechnology” ($350,000 over three years)
• UC Regents Faculty Development Fellowship, 2012 ($8,900 over one year)

Selected Invited Seminars and Workshops
• AME Department, University of Southern California, Los Angeles, CA, January 2011.
• ECE Department, Ohio State University, Columbus, OH, February 2011.
• ECE Department, Carnegie Mellon University, Pittsburgh, PA, March 2011.
• EE Department, Columbia University, New York, NY, April 2011.
• Workshop: “Stochasticity in Biochemical Reaction Networks”, Banff, September 2011.
• ERDC Army Workshop on Synthetic Biology, Caltech, Pasadena, CA, October 2011
• Department of Biosystems Science and Engineering, ETH Basel, Switzerland, April 2012.
• ME Department Colloquium, UC Irvine, CA, June 2012.
• Workshop: Identification, Design and Analysis of Biological Networks, IEEE CDC, 2012.
• MAE Department Colloquium, University of Florida, March 2013.
• MAE Department Colloquium, UC San Diego, CA, May 2013.
• International Workshop on Bio-Design Automation, Imperial College London, UK, July 2013.
• Workshop: Stochasticity in Biochemical Reaction Networks, Banff, September 2013.
• ECE Department Colloquium, University of Texas at Austin, March 2014.
• CCDC Seminar Series, University of California, Santa Barbara, February 2014.
• Workshop: CDS @ 20, California Institute of Technology, August 2014.
• Symposium on the Control of NETWORK Systems (SCONES) 2014, Invited Speaker, Boston University, October 2014.
• ECE Department Seminar, UC San Diego, CA, December 2014.
• Foundations in Nanoscience (FANANO), Invited speaker, April 2015.

Teaching

UC Riverside Fall 2011-Present
ME 120 (Linear systems and controls), ME 121 (Feedback control), ME 220 (Optimal Control and Estimation), ME 018 (Introduction to Engineering Computation)

California Institute of Technology Spring 2010
CDS 270-4 (Biology and control theory)

Professional Activities and Service

UC Riverside, Mechanical Engineering
Undergraduate (2011/2012, 2013/2014), Graduate (2012/2013), and Faculty Search Committees (2012/2013)

Conferences and workshops
• Local co-chair IEEE CDC 2016 (Las Vegas) • Associate Editor for invited papers IEEE MSC/CCA 2016 • Local chair IEEE
CDC 2014 (Los Angeles) • Associate Editor for invited papers IEEE CDC 2013 • International Program Committee and
Associate Editor, Mediterranean Conference on Control and Automation 2014 • IEEE CSS Technical Committees: Systems

**Scientific reviewing**

Science; ACS Synthetic Biology; Journal of Theoretical Biology (Elsevier); Journal of Mathematical Biology (Springer); Bioinformatics (Oxford Journals); BMC Systems Biology; Natural Computing (Springer); IEEE Transactions (Automatic Control; Signal Processing; Circuits and Systems; Systems, Man and Cybernetics); International Journal of Robust and Nonlinear Control; Automatica; several international IEEE and IFAC conferences.