UC Irvine
Networked Systems Program

Ender Ayanoglu, Director
EECS
October 20, 2017
Some Basics

- Since 2003
- Founders: Scott Jordan and Magda El Zarki
- Interdisciplinary between EECS and ICS
- M.S. program
- Ph.D. program
- Recently added M.S./Ph.D. program
- Focus on
  - Networking (Systems and Performance)
  - Communications
  - Middleware/Distributed Systems
- Very highly ranked among its interdisciplinary peers (#1)
- Academic Analytics: Off-the-charts in research productivity
## Admissions

<table>
<thead>
<tr>
<th>Year</th>
<th>Applications (Ms/PhD)</th>
<th>Admitted (MS/PhD)</th>
<th>Enrolled (MS/PhD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2004</td>
<td>92 (36/33)</td>
<td>30 (14/16)</td>
<td>10 (8/2)</td>
</tr>
<tr>
<td>2005</td>
<td>100 (29/31)</td>
<td>25 (16,9)</td>
<td>13 (8/5)</td>
</tr>
<tr>
<td>2006</td>
<td>107 (36/33)</td>
<td>20 (11,9)</td>
<td>9 (5/4)</td>
</tr>
<tr>
<td>2007</td>
<td>96 (38/30)</td>
<td>19 (13,6)</td>
<td>13 (9/4)</td>
</tr>
<tr>
<td>2008</td>
<td>117 (33/36)</td>
<td>30 (14,16)</td>
<td>9 (6/3)</td>
</tr>
<tr>
<td>2009</td>
<td>103 (46/27)</td>
<td>12 (8, 3)</td>
<td>4 (2/2)</td>
</tr>
<tr>
<td>2010</td>
<td>112 (39/45)</td>
<td>26 (35,3)</td>
<td>16 (13, /3)</td>
</tr>
<tr>
<td>2011</td>
<td>125 (71/28)</td>
<td>38 (35/3)</td>
<td>25 (22/3)</td>
</tr>
<tr>
<td>2012</td>
<td>122 (90/32)</td>
<td>17 (15/2)</td>
<td>11 (11/0)</td>
</tr>
<tr>
<td>2013</td>
<td>175 (140/35)</td>
<td>24 (23/1)</td>
<td>14 (13/1)</td>
</tr>
<tr>
<td>2014</td>
<td>256 (177/48/31)</td>
<td>29 (22/7)</td>
<td>15 (11/4)</td>
</tr>
<tr>
<td>2015</td>
<td>241 (181/28/32),</td>
<td>44 offers (38/6 PhD)</td>
<td>19 (16/3)</td>
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</table>
Incoming Fall 2017
Chiang, Jia-Wei
Deshpande, Swapna Milind
Devarajan, Nishanth
Ganla, Utkarsha Jitendra
Gupta, Himanshu
Gurbaxani, Raghav
Hsiao, Victor Weite
Huddar, Arpita Venkatesh
Kulkarni, Tushar Gajanan
Lin, Lin
Liu, Shijing
Meng, Lingxi
Navin Dhruve, Harshil
Nickparsa, Ali
Nimmagadda, Sai Krishna Tejaswi
Salviani, Michael
Shiraki, Yuya
Soundararajan, Soundarya
Wu, Di
Ye, Kai
Zhang, Zhengchi

Incoming Fall 2016
Agrawal, Mahesh
Chen, Lu
Gandikota, Jithendra Gururama
Gangolli, Yathish Sudhakara
Lee, Jungsuk
Li, Hou Tung
Liu, Chang
Ma, Jun
Mehta, Jatin
Pagariya, Bhushan Rameshchand
Rao, Madhavi Kachur
Sankar, Vignesh
Shaikh, Zoheb Shaikh Yousuf
Singh, Maharshi Arun
Sun, Ryan Jiun
Tavakolifard, Seyedhamidreza
Xiao, Yijie
Zhang, Jun
Zheng, Yuhan
Zhong, Zhuojian
# PhD Students

## PhD Students

<table>
<thead>
<tr>
<th>PhD Student</th>
<th>Advisor</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1st year</strong></td>
<td></td>
</tr>
<tr>
<td>Liu, Fangqi</td>
<td>Regan/Venkatsubramanian</td>
</tr>
<tr>
<td>Nakatsuka, Yoshimichi</td>
<td>Tsudik</td>
</tr>
<tr>
<td>Varmarken, Janus</td>
<td>Markopoulou</td>
</tr>
<tr>
<td>Tehrani, Peyman</td>
<td>Levorato</td>
</tr>
<tr>
<td><strong>Continuing</strong></td>
<td></td>
</tr>
<tr>
<td>Alimpertis, Emmanouil</td>
<td>Markopoulou</td>
</tr>
<tr>
<td>Bakopoulou, Evita Zoi</td>
<td>Markopoulou</td>
</tr>
<tr>
<td>Chen, Huan</td>
<td></td>
</tr>
<tr>
<td>Tillman, Balint</td>
<td>Markopoulou</td>
</tr>
<tr>
<td>Alsoliman, Anas Tarik</td>
<td></td>
</tr>
<tr>
<td>Chen, Te-Yu</td>
<td>El Zarki</td>
</tr>
<tr>
<td>De Oliviera Nunes, Ivan</td>
<td>Tsudik</td>
</tr>
<tr>
<td>Han, Qing</td>
<td>Venkatsubramanian</td>
</tr>
<tr>
<td>Huh, Yunho</td>
<td>El Zarki</td>
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<tr>
<td>Wang, Guoxi</td>
<td>Venkatsubramanian</td>
</tr>
</tbody>
</table>

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## Ph.D. Alumni

(www.networkedsystems.uci.edu/alumni.html)

### Table of Alumni

<table>
<thead>
<tr>
<th>Name</th>
<th>Advisor</th>
<th>Graduation Year</th>
<th>Employment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cesar Ghali</td>
<td>Tsudik</td>
<td>2016</td>
<td>Google</td>
</tr>
<tr>
<td>Blerim Cici</td>
<td>Markopoulou</td>
<td>2016</td>
<td>Apple</td>
</tr>
<tr>
<td>Wei Dai</td>
<td>Jordan</td>
<td>2015</td>
<td>Arista Networks</td>
</tr>
<tr>
<td>Chao Yang</td>
<td>Jordan</td>
<td>2014</td>
<td>Airbnb</td>
</tr>
<tr>
<td>Zhijing Qin</td>
<td>Venkatsubramanian</td>
<td>2014</td>
<td>Google</td>
</tr>
<tr>
<td>Ye Zhao</td>
<td>Venkatsubramanian</td>
<td>2014</td>
<td>Google</td>
</tr>
<tr>
<td>Fabio Soldo</td>
<td>Markopoulou</td>
<td>2011</td>
<td>Google</td>
</tr>
<tr>
<td>Emiliano De Cristofaro</td>
<td>Tsudik</td>
<td>2011</td>
<td>University College, London</td>
</tr>
<tr>
<td>Minas Gjoka</td>
<td>Markopoulou</td>
<td>2010</td>
<td>Google</td>
</tr>
<tr>
<td>Karim El Defrawy</td>
<td>Tsudik</td>
<td>2010</td>
<td>SRI International</td>
</tr>
<tr>
<td>Rex Chen</td>
<td>Regan</td>
<td>2010</td>
<td>Qualcomm</td>
</tr>
<tr>
<td>Ersin Uzun</td>
<td>Tsudik</td>
<td>2010</td>
<td>PARC, <strong>VP and Director</strong></td>
</tr>
<tr>
<td>Claudio Soriente</td>
<td>Tsudik</td>
<td>2009</td>
<td>NEC Research Laboratories, EU</td>
</tr>
</tbody>
</table>

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**Keep in touch**

Join our group on LinkedIn.
Director/Co-Director

- **Director**
  
  Ender Ayanoglu (ayanoglu@uci.edu)
  
  Office Hour: Wed 3-4 PM (EH 4221)

- **Co-Director (sjordan@uci.edu)**
  
  Scott Jordan
Courtesy Faculty

Mohammad A. Al Faruque

Wenlong Jin
Net Sys 295 Seminar

- Ten seminars for AY 2017-2018
- Will take place as part of CS Department Seminars
- Fridays 11 AM-12 PM
- Most of the time at DBH 6011
- The first one was October 6, 9 AM, at MDEA
- You must attend all ten seminars (one exception)
Net Sys 295 Term Paper

- At the end of the school year, you will write a term paper, 2-4 pages, which
  - Is motivated by one of the talks
  - Summarizes the work presented in the talk, and
  - Identifies open issues and future directions

- The later part should be essentially a research proposal that answers the following questions
  - Problem Statement: Explicitly state the question you propose to study
  - Motivation: Why is this a useful/interesting problem to look at. Who cares if you solve it?
  - Research Plan: How would you go about answering this question? What steps would you take?
  - Novelty: What is new about what you propose, how does it compare/relate to prior work?
  - Deliverables: What would be the outcome of this research? Examples: An algorithm? A dataset? A prototype?

http://www.networkedsystems.uci.edu/netsys295.html
Curricular Practical Training (CPT)

- Allows you to work for a company
  - Typically in the summer full-time
  - Less often, during the academic year: part-time

- You must enroll in a “CPT-compatible” class
  - EECS 290 with Prof. Capolino: 1 unit, handled by Amy@EECS
  - ICS 299 any advisor, 1 unit

- What to do if you want CPT this coming year:
  - Go to ICS advising office to confirm that you are in good standing, etc.
  - Enroll in EECS 299 with Ayanoglu or Jordan
  - Bring in the form to Ayanoglu or Jordan to sign
  - Please allow for sufficient time (2 weeks)

- Talk to past students about potential internship opportunities
Resources for Students

- **NetSys-ICS vs NetSys-Eng:**
  - You should be treated equally as other students in either department (e.g., access to TAships, Readers, GSRs, etc.)

- **Travel grants**
  - As a Ph.D. student, you may be eligible for a travel grant of $1500 if you are presenting a paper in a conference
  - Requires you to be the first author and the advisor’s recommendation
  - NetSys M.S. students may also be eligible, depending on the availability of funds

- One time stipend/reimbursement for incoming Ph.D. students
Websites

Program

http://networkedsystems.uci.edu

Net Sys 295

http://eee.uci.edu/17f/37680

NET SYS SEMINAR
NET SYS 295, Course Code: 37680
Quarter: Fall 2017 (and Winter, Spring 2018)

Schedule | NETSYS Program

Instructor Information

- Binder Approach
  Office hours: Wed 3:00-4:00pm in EE 4221.
- Scott Jordan

Seminar Overview

The goal of this class is to expose students to a wide range of advanced topics in the field of networking.

Where/when: There will be (approx.) 10 seminars over the entire academic year, approximately 3-4 every quarter. For the exact schedule please check regularly on the Networked Systems website. They will always be held on a Friday, 11am-noon.

Relation to CS Seminar: The NetSys talks are mostly part of (and co-located with) the CS Seminar Series, which takes place on Fridays 11am-noon in DBH 6011. There are more seminars in the CS seminar series. Approximately ten of them will be marked as NETSYS. It is possible that a NetSys seminar on one Friday 11am-noon takes place at a different location than DBH 6011, and thus not part of the CS seminar series. For example the first NetSys seminar of 2017-2018 will take place in DBH 3011, Friday Oct 6th, 2017, 11am-noon. Check the schedule on the NetSys website and read you reminder by email. But it is the students' primary responsibility to keep up with the schedule.

Rules and Deliverables

This is a seminar class, whose main purpose is to introduce you to networking research. Therefore, it has fewer deliverables than a regular class. There is no final exam. However it still tries to engage you in the thinking of process through the following mandatory requirements for passing the class:

0. You must register in NETSYS295.

You must register in NetSys295 for all three quarters in 2017-2018. Make sure to register for “Lect” grade. You will get S (or U) at the end of each of the three quarters, assuming you fulfill the attendance requirements that quarter (or fail). You will receive an F if you fail all your attendance requirements and you have submitted your report.

1. You must attend all ten NETSYS seminars.

Attendance is mandatory, you have to attend all (but one) seminars. There will be a NetSys-specific attendance sheet in the
Websites

UCI Catalogue
http://catalogue.uci.edu/interdisciplinarystudies/networkedsystems/#courseinventory
NetSys Student Mailing Lists

- To: netsysstudents@ics.uci.edu
  - All NetSys students

- To: 37680-F17@classes.uci.edu
  - Students in NET SYS 295
Questions?

- ayanoglu@uci.edu
- sjordan@uci.edu