CURRICULUM VITAE

CV SECTION 1: Employment History/Awards

NAME       Christos Papadopoulos
ADDRESS    Department of Computer Science
           Colorado State University
           1873 Campus Delivery, Fort Collins CO 80523
PHONE      (970) 491-3267
           Email: christos@colostate.edu
           URL: http://cs.colostate.edu/~christos/

EDUCATION
1999    D.Sc. in Computer Science, Washington University in St. Louis
1992.   M.S. in Computer Science, Washington University in St. Louis
1989    B.S. in Computer Science, Queens College (CUNY) New York
1983    Diploma of Technician Engineer, Higher Technical Institute, Cyprus

RESEARCH INTERESTS
Network Protocols, Network Security, Network Measurements, Internet Architecture

ACADEMIC POSITIONS
(2014-present) professor, computer science, Colorado State University
(2006-2014)    associate professor, computer science, Colorado State University
(1999-2006)    assistant professor, computer science, University of Southern California

SABATICALS
Fall 2015

OTHER POSITIONS
(1989–1999) research assistant, computer science, Computer and Communications Research Center (CCRC) and Advanced Research Laboratory (ARL), Washington University in St. Louis MO

CURRENT JOB DESCRIPTION
40% Teaching, 53% Research/Creative Activity, 7% Service/Outreach, 0% Admin.

HONORS AND AWARDS
Career Award, NSF, 2002
CV SECTION 2: Publications/Scholarly Record

PUBLISHED WORKS

Books:
None

Refereed Journal Articles:


Accepted for Publication

Textbooks:
None

Refereed Chapters in Books:

Refereed Proceedings/Transactions:


38. “Musical Interaction at a Distance,” by Elaine Chew, Roger Zimmermann, Alexander A. Sawchuk, Chris Kyriakakis, Christos Papadopoulos, Alexandre R. J. Francois, Gerry Kim and Anja Volk. Accepted for publication at the 4th Open Workshop of MUSICNETWORK, Universitat Pompeu Fabra, Barcelona, Spain, September 2004.


54. “Retransmission-based Error Control for Continuous Media Applications,” by Christos Papadopoulos and Guru Parulkar, Proc. of the Sixth International Workshop for Network and


Non-Refereed Journal Articles/Chapters/Proceedings/Transactions:


CONTRACTS & GRANTS

Pending


Awarded


PAPERS PRESENTED/SYMPOSIA/INVITED LECTURES/PROFESSIONAL MEETINGS/WORKSHOPS


8. “Managing Scientific Data with Named Data Networking.” NSF PI meeting, Austin TX, Sept 2015


18. “Supporting Climate applications with NDN.” Invited presentation, CMMAP retreat, Jan 2014.

22. “Content Auditing in ICN.” CCW, Nov 2012, Sedona, AZ.


OTHER ACTIVITIES/ACCOMPLISHMENTS – PUBLICATIONS/SCHOLARLY RECORD

2008-9: Helped organize the annual security exercise (CANVAS) that includes students at Colorado State University, US Air Force Academy, Denver University and other Colorado universities.

Involved in an ongoing effort to publish network traces through the DHS-funded program PREDICT, to benefit the community of security researchers.
# CV SECTION 3: EVIDENCE OF TEACHING AND ADVISING EFFECTIVENESS

## TEACHING:

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Course No/Title</th>
<th>Cr. Hours</th>
<th>Enrollment</th>
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**Development of New Courses**

CS680, Spring 2007. This is a seminar course with emphasis on systems security, where students created their own network with Cisco routers and real services (mail, DNS, web, SSH, ftp) and staged attacks and defenses.

## STUDENT ADVISING/GRADUATE SUPERVISION

### UNDERGRADUATE STUDENTS

- Nick Diel (graduated)
- David Kapp (graduated)
- Kathrine Shubert (graduated)
- Andrea Steiner
- Tyler Scott (graduated)

### GRADUATE STUDENTS

Current Graduate Advisees:

- Han Zhang (PhD) (estimated graduation Jan 2017, accepted offer at Salesforce)
- Anant Shah (PhD) (estimated graduation Fall 2017)
Susmit Shannigrahi (PhD) (estimated graduation Fall 2017)
Chengyu Fan (PhD) (estimated graduation Spring 2016)
Manaf Gharaibeh (PhD) (estimated graduation Fall 2017)
Dan Rammer (PhD) (estimated graduation Fall 2018)
Kaustubh Gadkari (PhD) (on hold)

Current Graduate Committee Membership:

8, Plan A

Graduate Committee memberships (for the past 5 years)

11 PhD

Graduate Degrees Completed Under My Supervision

Steve DiBenedetto (MS) now at Google
Vamsi Kambhampati, 2012 PhD (advisor)
He Yan, 2012 PhD (co-advisor)
Mengran Hu, MS 2010 (advisor)
Genevieve Bartlett, 2010 PhD (co-advisor) (USC student)
Rishi Sinha 2006, PhD (advisor) (USC student)
Xinming He, 2006 PhD (co-advisor) (USC student)
Alefiya Hussain, 2005, PhD (co-advisor) (USC student)
Adnan Mahmud, 2004, MS (advisor) (USC student)
Emmanuil Laliotis, 2000, MS (advisor) (USC student)

Descriptions of Mentoring Activities

Helped develop the NetSec Lab, with Prof. Massey. Supervised several undergraduates and one graduate student in network administration, web page development, machine configuration, etc.

CV SECTION 4: Evidence of Outreach/Service

INTERNAL COMMITTEES

Faculty Council, CNS At-Large Representative, July 1 2013 – June 30 2016
Department Graduate Admissions Committee, 2012, 2013
Department Graduate Program committee, 2011
Department Operations Committee, 2010
Coffee with CSU, Coordinator, IsTec, 2008-11
Department Undergraduate Committee, 2008-9
Department Graduate Admissions Committee, 2007
Department Research Committee, 2006

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

Professional Memberships: ACM, IEEE.
TPC Co-chair, Networking, 2016
TPC Co-chair, ICCCN, NACSD track, 2013
TPC Co-chair, Global Internet, 2008.
Chair, Computer Communications Workshop, Fall 2008.
Treasurer, Sigcomm 2005.
Student Travel Awards committee member, Sigcomm 2004.
TPC Co-chair, NOSSDAV 2003.
Panel Chair, ACM OpenSig 2002, Lexington, KY. Theme: “Extensible Networks.”
Chair, Student Travel Awards, Sigcomm 2001.
Program Committee member, Cyber & Information Security Research Conference (Oak ridge National Labs) 2017
Program Committee member, INFOCOM 2017.
Program Committee member, International Teletraffic Congress (ITC) 29 Area 2, 2017
Program Committee member, ACM WISCS 2014
Program Committee member, ACM ICN, 2014, 2015, 2016, 2017
Program Committee member, Networking 2010-16
Program Committee member, ICN Workshop, 2013
Program Committee member, ICN Workshop, 2013
Program Committee member, ICCCN, 2012
Program Committee member, Global Internet 2010-13
Program Committee member, IMC 2009
Program Committee member, Sigcomm 2009
Program Committee member, Global Internet, 2007.
Program Committee member, Sigcomm 2007.
Program Committee member, Networking 2006.
Program Committee member, Infocom 2006.
Program Committee member, Comsware 2006.
Program Committee member, Networking 2005.
Program Committee member, Sigcomm 2004.
Program Committee member, Infocom 2004.
Program Committee member, NGC 2003.
Program Committee member, Infocom 2003.
Program Committee member, NGC 2002.
Program Committee member, NOSSDAV 2002.
Grant Proposal Reviewer: National Science Foundation. External reviewing and panel reviews. 2000 – present.


OTHER ACTIVITIES/ACCOMPLISHMENTS – SERVICE/OUTREACH

Member of the Internet 2 CEO search committee 2017 (https://www.internet2.edu/news/detail/12842/)

h-index (as of Dec 2016): 25

Paper Citations (papers with over 100 citations as of Oct 2015, source: Google Scholar)

- An Error Control Scheme for Large-Scale Multicast Applications (1998): 300 citations.
- Retransmission-Based Error Control for Continuous Media Applications (1996): 163 citations.
- Named data networking (ndn) project (2010): 401 citations
- Eliminating steganography in Internet traffic with active wardens (2003) 183 citations
- Cossack: Coordinated suppression of simultaneous attacks (2003) 166 citations
- Internet packet size distributions: Some observations (2007) 123 citations

Contributed Software

- LMS simulation software: contributed software module to ns. Available at http://www.isi.edu/ns/
- PGM simulation software: contributed software module to ns. Available at http://www.isi.edu/ns/
- Cossack: Coordinated Suppression of Simultaneous Attacks. Available at http://www.isi.edu/cossack
- With Dan Massey: BGPmon: software to monitor BGP activity in the Internet bgpmon.netsec.colostate.edu
- With John Heidemann: The ANT project www.isi.edu/ant

External Evaluations

The Cossack software was selected to undergo Red Team Evaluation at a DARPA testing facility in Arlington, VA. Oct 2002 – April 2003. DARPA selects only a handful of projects from each program for Red Team evaluation.