Vita

George N. Rouskas

Alumni Distinguished Graduate Professor
Department of Computer Science
North Carolina State University
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Qualifications

An experienced researcher and educator in the broad field of computer networking, with technical expertise in Internet architectures and protocols, virtualization and cloud computing, mobile devices, network devices, network security and security protocols, in a variety of applications including providing for the protection of information transmitted between devices within and among networks.

Education

Ph.D.	1994	Georgia Institute of Technology	Computer Science
M.S.	1991	Georgia Institute of Technology	Computer Science
B.S.	1989	National Technical University of Athens	Computer Engineering

Employment History

Alumni Distinguished Graduate Professor (Professor 2002-2018 Associate Professor 1999-2002 Assistant Professor 1994-1999)	Department of Computer Science North Carolina State University Raleigh, NC	1994-present
Director of Graduate Programs	Department of Computer Science	January 2014-present

Visiting Positions

Distinguished Scientist	King Abdulaziz University, Saudi Arabia	March 2013-present
Visiting Professor	Laboratoire d'Informatique University of Paris 6, France	October 2012
Visiting Professor	Universidad Tecnica Federico Santa Maria, Chile	December 2008
Visiting Professor	Laboratoire de Méthodes Informatiques University of Evry, France	July 2006 December 2002 June 2000

Honors and Awards

Outstanding Service Award, Optical Networking Tech. Cmte (ONTC), IEEE Commun. Society, 2019

Alumni Distinguished Graduate Professor, NC State, 2018

Joyce Hatch Service Award, NC State Chapter of ACM/AITP, 2015

Fellow, Institute of Electrical and Electronic Engineers (IEEE), 2012

Carol Miller Graduate Lecturer Award, NC State Chapter of ACM/AITP, 2012

IEEE Distinguished Lecturer, 2010-2011

Outstanding Service Award, IEEE GLOBECOM, 2010 IBM Faculty Award, 2007

ALCOA Foundation Engineering Research Achievement Award, CoE, NC State, 2004

Academy of Outstanding Teachers, NC State, 2004

Alumni Outstanding Research Award, NC State, 2003

Best Paper Award, *SPIE Conference on All-Optical Networking*, 1998 (with I. Baldine)

CAREER Award, National Science Foundation (NSF), 1997

Graduate Research Award, College of Computing, Georgia Institute of Technology, 1994

I. Teaching and Mentoring

Courses Taught

CSC 316 – Data Structures (undergraduate)

CSC 401 – Computer Networks

(undergraduate) CSC/ECE 573 – Internet

Protocols (graduate)

CSC/ECE 579 – Introduction to Computer Performance Evaluation (graduate)

CSC/ECE 772 – Survivable Networks (graduate)

CSC/ECE 778 – Optical Networks (graduate)

Visiting Scholars

4. Dr. Kamal Jambi, 2018-19 (King Abdulaziz University, Jeddah, Saudi Arabia)
   Research: *Machine Learning Applications to Network Control Plane*

3. Dr. Yu Xiong, 2016-2017 (Chongqing University of Posts and Telecommunications (CUPT), China)
   Research: *Optical and Datacenter Networks*

2. Dr. Omar Batarfi, 2014-2015 (King Abdulaziz University, Jeddah, Saudi Arabia)
   Research: *Visible Light Communications*

1. Dr. Evripidis Bampis, 2005-2006 (Paris VI University, France)
   Research: *Packet Scheduling*

Post Doctoral Fellows

3. Dr. Emre Yetginer, 2008-2009
   Research: *Traffic Grooming for Green Optical Networking*

2. Dr. A. Halim Zaim, 2001-2002
   Research: *Implementation of Signaling Protocols for Optical Burst-Switched Networks*

1. Dr. Sridhar Ramesh, 1999-2000
   Research: *Performance Analysis of Wavelength Routed Networks*

Ph.D. Students Supervised – Graduated

25. Lingnan Gao, 2019
    Dissertation: *Resource Allocation in Virtual Network Environments*
    Outstanding Research Award, 2019
    Outstanding Teaching Assistant Award, 2016

24. Shireesh Bhat, 2017
    Dissertation: *Network Service Orchestration within the ChoiceNet Architecture*

22. Sahar Talebi, 2015
Dissertation: *On Routing and Spectrum Assignment in Elastic Optical Networks*

21. Ahmet Can Babaoglu, 2014
Dissertation: *Verification Services for the Choice-Based Internet of the Future*

20. Hui Wang, 2013
Dissertation: *Efficient Decomposition Techniques for Traffic Grooming Problems in Optical Networks*

19. Zeyu Liu, 2012
Dissertation: *On Routing and Wavelength Assignment in WDM Networks*

18. Mohan Iyer, 2010
Dissertation: *Providing Bandwidth on Demand Services Using Optical Network Design and the SILO Network Architecture*
Outstanding Teaching Assistant Award, 2009

17. Qian Lv (2010)
Dissertation: *Economic Models for Internet Tiered Services*

16. Anjing Wang, 2010
Dissertation: *Optimization of Silo Services for the Future* Internet
Outstanding Teaching Assistant Award, 2009

15. Zyad Dwekat 2009
Dissertation: *Practical Fair Queueing Schedulers: Simplification Through Quantization*

14. Claris Castillo, 2008
Dissertation: *Scheduling and Resource Management in Grids*
College of Engineering Nancy G. Pollock PhD Dissertation Award, 2008
Google Anita Borg Scholarship, 2007
Outstanding Teaching Assistant Award, 2006

13. Li Yang, 2006
Dissertation: *Congestion Control and Quality of Service (QoS) Provisions for Optical Burst Switched Networks*

12. Bensong Chen, 2005
Dissertation: *Hierarchical Traffic Grooming in Large-Scale WDM Networks*
Outstanding Teaching Assistant Award, 2004

11. Jing Teng, 2004
Dissertation: *A Study of Optical Burst Switched Networks with the Jumpstart Just-In-Time Signaling Protocol*

10. Laura E. Jackson, 2003
Dissertation: *The Directional p-Median Problem with Applications to Traffic Quantization and Multi-processor Scheduling*
GAANN Fellow, 2000-2003
College of Engineering Nancy G. Pollock PhD Dissertation Award, 2004

9. Yufeng Xin, 2002
Dissertation: *Topology Design of Large-Scale Optical Networks*

8. Lisong Xu, 2002
Dissertation: *Performance Analysis of Optical Burst Switched Networks*
NSF CAREER Award, 2007

7. Rudra Dutta, 2001
   Dissertation: *Virtual Topology Design for Traffic Grooming in Optical WDM Networks*

6. A. Halim Zaim, 2001
   Dissertation: *Computing Call Blocking Probabilities in LEO Satellite Networks*

5. Yuhong Zhu, 1999
   Dissertation: *Computation of Blocking Probabilities in Wavelength Routing Networks*

4. Ilya Baldin, 1998
   Dissertation: *Dynamic Reconfiguration in Broadcast WDM Networks*

3. Zeydy Ortiz-Laureano, 1998
   Dissertation: *Techniques to Support Multicast Traffic in Single-Hop WDM Optical Networks*
   NSA Fellow, 1994-1998

2. M. William (Bill) McKinnon, 1997
   Dissertation: *Performance Analysis of a Class of Photonic Interconnection Architectures*

1. Supriya S. Sharma, 1997
   Dissertation: *Optimal Buffer Management for Shared Buffer ATM Switches*

Visiting Ph.D. Students

5. Fengxian Tang, 2019-2020 (Soochow University, China)
   Research: *Optical Network Optimization*

4. Wenzhe Li, 2017-2018 (Beijing University of Posts and Telecommunications, China)
   Research: *Optical Networks on a Chip (ONoC)*

3. Xiaomin Liu, 2011-2012 (Beihang University, China) Research: *Ethernet Passive Optical Networks*

2. Chang Cao, 2010-2011 (Beijing University of Posts and Telecommunications, China)
   Research: *p-Cycle Protection in MPLS Networks*

1. Arun Viswanath, 2007-2008 (University of New South Wales, Australia)
   Research: *Buffer Sizing in High-Speed Routers*

M.S. Students Supervised – Graduated

12. Manoj Vellala, 2008
    Thesis: *Stack Composition for SILO Architecture*

11. Srikrishna Girish Khare, 2008
    Thesis: *Linux Implementation of Tiered Service Fair Queueing (TSFQ) Scheduling Disciplines*

10. Ajay Babu Amudala Bhasker, 2006
    Thesis: *Tiered-Service Fair Queueing (TSFQ): A Practical and Efficient Fair Queueing Algorithm*

9. Nikhil Baradwaj, 2005
   Thesis: *Traffic Quantization and its Application to QoS Routing*
   Graduate School Nancy G. Pollock MS Thesis Award, 2006

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