Curriculum Vitae

Roberto Tamassia

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Brief Biography

Roberto Tamassia is the Plastech Professor of Computer Science and the Chair of the Department of Computer Science at Brown University. He is also the Director of Brown's Center for Geometric Computing. His research interests include information security, cryptography, analysis, design, and implementation of algorithms, graph drawing and computational geometry. He has published six textbooks and more than 250 research articles and books in the above areas and has given more than 70 invited lectures worldwide. He is an AAAS Fellow, ACM Fellow, and IEEE Fellow and the recipient of a Technical Achievement Award from the IEEE Computer Society for pioneering the field of graph drawing. He is listed among the 360 most cited computer science authors by Thomson Scientific, Institute for Scientific Information (ISI). He serves regularly on program committees of international conferences. His research has been funded by ARO, DARPA, NATO, NSF, and several industrial sponsors. He received the Ph.D. degree in electrical and computer engineering from the University of Illinois at Urbana-Champaign in 1988.

Education

88   Ph.D. in Electrical and Computer Engineering, University of Illinois at Urbana-Champaign.
Advisor: Franco P. Preparata. Thesis Topic: "Dynamic Data Structures for Two-Dimensional Searching."

84   "Laurea" (M.S.) in Electrical Engineering, University of Rome "La Sapienza."
Advisor: Carlo Batini. Thesis Topic: "Layout Algorithms and Tools."

Current Professional Appointments

09–   Plastech Professor of Computer Science, Brown University

00–   Director, Center for Geometric Computing, Brown University

Previous Professional Appointments

07–14   Chair, Department of Computer Science, Brown University

98–09   Professor of Computer Science, Brown University

99–01	Adjunct Professor Department of Computer Science Johns Hopkins University
93–98	Associate Professor, Department of Computer Science, Brown University
88–93	Assistant Professor, Department of Computer Science, Brown University
92	Visiting Associate Professor, Dipartimento di Informatica e Sistemistica, University of Rome "La Sapienza"
92	Visiting Associate Professor, Istituto di Analisi dei Sistemi ed Informatica, Italian National Research Council
88–89	Affiliated Research Faculty, Computer Learning Research Center, The University of Texas at Dallas
86–88	Research Assistant, Coordinated Science Laboratory, University of Illinois at Urbana-Champaign
85	Fulbright Grantee, Coordinated Science Laboratory, University of Illinois at Urbana-Champaign
84–85	Research Associate, Dipartimento di Informatica e Sistemistica, University of Rome "La Sapienza"

Awards and Honors

12-	*Fellow, American Association for the Advancement of Science*, (*AAAS*)
12-	*Fellow, Association for Computing Machinery*, (*ACM*)
09-	*Fellow, Institute of Electrical and Electronics Engineers*, (*IEEE*)
06-	*Highly Cited Researcher in Computer Science*, Thomson Scientific, Institute for Scientific Information (ISI). Listed among the 319 most cited computer science authors worldwide.
06	*Technical Achievement Award*, IEEE Computer Society. Citation: "For pioneering the field of graph drawing and for outstanding contributions to the design of graph and geometric algorithms."
06	Award for Technological Innovation, Brown University
97–98	Biographee in *Who's Who in the East*
90–92	ACM lecturer
87	AICA (Italian Association for Computer Science) Award for Best Research Work in Computer Science, for the paper "On Embedding a Graph in the Grid with the Minimum Number of Bends"
85	Fulbright Grantee
84	Graduation *cum laude*, University of Rome, "La Sapienza"

Teaching

12–	CS 2951E Topics in Computer Systems Security (Brown University) https://sites.google.com/site/browncs2951e/
06-12	CS 166 Introduction to Computer Systems Security (Brown University) http://www.cs.brown.edu/courses/cs166/
89–05	CS 252 Computational Geometry (Brown University) http://www.cs.brown.edu/courses/cs252/
88–06	CS 16 Algorithms and Data Structures (Brown University) http://cs16.net/
92	Computational Geometry (University of Rome)
84–85	Data Structures and Pascal Programming (University of Rome)

Consulting to Industry

00–03	Algomagic Technologies, Inc.
91–93	Arthur Andersen & Co., Chicago, Illinois
89	Cadre Technologies, Inc., Providence, Rhode Island
88	Digital Equipment Corporation, Colorado Springs, Colorado
85	Datamat, S.p.A., Rome, Italy
85	ENIDATA, S.p.A., Milan, Italy
84	Data Base Informatica, S.p.A., Rome, Italy
83	ISDOS, Inc., Ann Arbor, Michigan

Government Review Boards and Committees

National Science Foundation, panelist and reviewer

Army Research Office, reviewer

Natural Sciences and Engineering Research Council of Canada, reviewer

Ontario Council on Graduate Studies, appraiser

Australian Research Council, reviewer

Australian Academy of Science, reviewer

Italian Ministry of Education, University and Scientific Research, member of Board of Experts

Research Interests

Information Security

Cryptography

Analysis and Design of Algorithms

Graph Drawing

Computational Geometry

Computer Science Education

Research Grants and Corporate Gifts

12–17   National Science Foundation, "Moving Objects Databases for Exploration of Virtual and Real Environments," IIS–1212508, PI, $250,000.

12–16   National Science Foundation, "Privacy-Preserving Distributed Storage and Computation," CNS–1228485, PI, $400,169.

12   NetApp, $40,000

10–15   National Science Foundation, "Towards Trustworthy Interactions in the Cloud," CNS–1012060, PI (with Anna Lysyanskaya and Rodrigo Fonseca), $1,000,000.

10   NetApp, $40,000

09   Google, $50,000 (with John Tyler)

09   NetApp, $40,000

08–13   National Science Foundation, "Algorithms for Graphs on Surfaces," CCF–0830149, PI, $199,999.

07–11   National Science Foundation, "Trust Management for Open Collaborative Information Repositories: The CalSWIM Cyberinfrastructure," OCI–0724806 (with Cristina Lopes, Michael T. Goodrich and Stanley Grant), co-PI,$1,090,465.

07–09   National Science Foundation, "Privacy Management, Measurement, and Visualization in Distributed Environments," IIS-0713403, PI, $224,995.

07   IAM Technology, Inc., $37,500

03–08   National Science Foundation, "Context-Aware Computing with Applications to Public Health Management," IIS-0324846, $399,000. (This medium ITR project is in collaboration with Isabel F. Cruz and Peter Scheuermann, and has an overall funding of $2M.)

03–06   National Science Foundation, "An Algorithmic Approach to Cyber-Security," CCR-0311510, $100,000.

06   IAM Technology, Inc., $131,000.

03–06   National Science Foundation, "The Brown Internet Computing Laboratory," EIA-0303577 (with Steven P. Reiss, Eliezer Upfal, Maurice Herlihy, and Shriram Krishnamurthi), $640,000.

05   IAM Technology, $32,500.

03–04   Sun Microsystems, $20,000.

03–04	National Science Foundation, "Teaching Data Structures to the Millennial Generation," DUE–0231202, $124,999.
04	IAM Registry Corporation, $30,000.
03	Sun Microsystems (with Thomas W. Doeppner), $20,000.
01–04	National Science Foundation, "Graph Visualization and Geometric Algorithm Design," CCR–0098068 (with Michael T. Goodrich), $400,000.
00–03	Defense Advanced Research Projects Agency, "Efficient and Scalable Infrastructure Support for Dynamic Coalitions," F30602–00–2–0509 (with Michael T. Goodrich and Robert F. Cohen), $1,497,376.
98–02	National Science Foundation, "Geometric Algorithm Design and Implementation," CCR–9732327, $230,991.
97–03	National Science Foundation, "A Networked Computing Environment for the Manipulation and Visualization of Geometric Data," Research Infrastructure Grant CDA-97-03080 (with Lawrence B. Wolff et al.), $1,226,127.
99	Microsoft Research, $8,000.
96	Tom Sawyer Software, Inc., $40,000.
95–01	Army Research Office, "Applicable and Robust Geometric Computing" (with P. Agarwal, R. Kosaraju, M. T. Goodrich, F. P. Preparata, and J. S. Vitter), DAAH04–96–1–0013, $4,484,247.
95–98	National Science Foundation, "Graph Drawing," CCR–9423847, $225,107.
94–95	NATO Scientific Affairs Division, "Algorithms for Graph Connectivity" (with G. Di Battista and A. Kanevsky), $6,000.
93–96	Army Research Office, "High Performance Algorithms for Computational Geometry" (with Jeffrey S. Vitter), DAAH04–93–G–0134, $65,000.
91–94	National Science Foundation, "Algorithmic Issues in High Performance Computing" (with Jeffrey S. Vitter), CCR–9007851, $346,802.
91–93	Army Research Office, "Algorithmic Issues in High Performance Computing" (with Jeffrey S. Vitter), DAAL03–91–G–0035, $150,000.
91–93	Office of Naval Research and Defense Advanced Research Projects Agency, "High-Performance Design Environments" (with E. Charniak, T.W. Doeppner, J. Hughes, P.C. Kanellakis, P.N. Klein, D.P. Lopresti, F.P. Preparata, S.P. Reiss, J.E. Savage, A. van Dam, P. Van Hentenryck, J.S. Vitter, P. Wegner, F.K. Zadeck, and S.B. Zdonik), N00014–91–J–4052, ARPA order 8225, $2,654,835.
91–93	NATO Scientific Affairs Division, "Algorithms for Graph Connectivity" (with G. Di Battista and A. Kanevsky), $6,708.
91	AT&T Foundation, "Parallelism in Instructional Computing," $10,000
91	Cadre Technologies, Inc., $10,000
89	Cadre Technologies, Inc., $25,000

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