Résumé   April 8, 2019

Professor Gautam Dasgupta, Columbia University, New York, NY
dasgupta@columbia.edu; DOB: October 13, 1946; Citizenship: USA

Education

Bengal Engineering College, Calcutta University, INDIA: Bachelor of Engineering 1967
(Civil) Master of Engineering 1969 (Applied Mechanics)
University of California, Berkeley, Doctor of Philosophy 1974 (Structural Mechanics)

Employment

Columbia University, Asst. Prof. 1978, Assoc. Prof. 1981, Prof. 1994
University of California, Berkeley, Post-doctoral fellow 1974–77
Goa Polytechnic, Lecturer, Applied Mechanics, 1970
Technical Teachers Trainee, Applied Mechanics, 1967–70

Guest Professorship

Technische Universität, Wien, Austria, 1982-92, Associate Professor
Bundeswahr Universitat, Hamburg, Germany, 1986-87, Associate Professor
Technische Universitat, Braunschweig, Germany, 1993-94, Professor

Fellowship

Alexander von Humboldt Stiftung, Germany, 1986
Fulbright Senior Professorship, Washington D.C., 1998
Tsunoda Research Fellowship, Waseda University, Japan, 2017

Cumulative Research Funding

National Science Foundation: $1,187,000;
National Institutes of Health: $300,000
Columbia University Academic Quality Fund $270,000

Publication

Textbook: 1 (Springer Verlag); Journal Papers: 16 (single author), 21 (joint);

Columbia University Patent

U.S. Patent No. 6,101,450: "Stress Analysis ... Defect-Free ... Finite Element Technique"

Consulting Experience

Bechtel Corporation, San Francisco, California, 1974-77
Weidlinger Associates, New York, NY, 1977–80
AMOCO, Tulsa, OK, 1983–87
NASA-Lewis, Probabilistic structural analysis, 1981-86
Business Advantage, Espoo, Finland, Computer Algebra, 1991-
Knowledge Solutions Group, Toyo, Japan, 1999–

Conference Chair

Founding Chair: International Mathematica Symposium, 1995
Vice Chair: Turing Centenary Advisory Committee, 2013

Committee Chair and Editorship

American Society of Civil Engineers, Journal of Engineering Mechanics:
Elasticity, 1980 1985; Bioengineering, 1990 1995

Teaching

Continuum Mechanics (Current); Structural Mechanics and Applied Mathematics

with Waseda University

Columbia University Tsunoda Fellowship: Engineering Mechanics in Waseda

Research with Senior and Junior faculty members: Large scale symbolic computations

with NYU and Tsinghua University

Project: Turing, Chomsky and Wolfram in "Computational Thinking"

with Tsinghua University and Knowledgw Solutions Group, Tokyo

Project: Large Scale Optimization with Symbolic Computation

with Osaka University, Osaka

Guest speaker at the December 2018 "Disaster Mitigation" symposium

with Advanced Institute of Industrial Technology (AIIT), Tokyo

Guest speaker at the September 2018 "Disaster Mitigation" symposium

Tokyo Metropolitan University Public University Corporation, Asia Professional Educational Netwrok, November 2018 meeting, Kuwala Lumpur:

'Statistics of Extremes for Natural, Industrial and Man-made Extreme Disasters'

with Universities and Institutes in India

Birla Institute of Technology and Science, Pilani — Goa:

  Guest Lecture on Computations in Engineering Mechanics

Indian Statistical Institute, Kolkata

  Languages for Symbolic Computations

Indian Institute of Engineering Science and Technology, Shibpur

  Emergency Management and Security Engineering

with Springer Verlag

Completing: Tensor Computations: *for* Physical, Cyber & Uncertain Systems

Mid stage of writing: SECURITYENGINEERING:

  Mitigating Natural, Industrial & Man-made Extreme Disasters

Final Stage of Editing: "Complex Fibonacci Series with Applications" —by A. Weierholt

Final Stage of Editing: "Computer Metalanguage with Applications" —by B. Koo

with ASCE Elasticity Committee

Committee Member: Reviewer;

Special Lectue at the Tokyo Institute of Technology, O-okayama, Meguro-ku Tokyo:

"Analytical Computation of Exact Strains in Quadrilaterals"

Current Paper: "Large Strain Computation in Quadrilaterals"

Commencement Speaker at AIT, Bangkok

Chief Guest for May 2018 graduation ceremony; Guest Speaker at the Commencement

Hosting Scholars

J. Shen, PhD student, Tsinghua University, Beijing

A. Weierholt, Prof. Mathematics, Oslo Engineering College, Oslo

Three Journal Publications with students in University of Science and Technology Beijing

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