

Kajori Banerjee

CONTACT INFORMATION

Kajori Banerjee
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OBJECTIVE

To take up challenges throughout my career, play a significant role in the growth of the organization I associate with, and to make useful contributions to the advancement of Computer Science.

RESEARCH INTERESTS

Verification, Programming Language Theory, Logic and Automata Theory.

EDUCATION

Indian Institute of Technology Kharagpur, Kharagpur, India

M.Tech in Computer Science and Engineering

- Dissertation Topic: “Formal Methods for analyzing embedded software and communication”
- Duration: July, 2011 - July, 2013
- University: Indian Institute of Technology Kharagpur
- Department: Computer Science and Engineering
- CGPA : 9.65/10

Netaji Subhash Engineering College, Kolkata, India

Bachelor of Technology in Computer Science and Engineering

- Duration: July, 2007 - May, 2011
- University: West Bengal Institute of Technology
- Department: Computer Science and Engineering
- CGPA : 8.88/10
- Division: First Class

Saidabad Manindra Chandra Vidyapith, Berhampore, West Bengal, India

Higher-Secondary Education (Class XII Board Exam)

Higher Secondary Examination : West Bengal Council of Higher Secondary Examination, July 2007

Marks: 77%

- Division: First Class

Mary Immaculate School, Berhampore, West Bengal, India

Secondary Education (Class X Board Exam)

ICSE : All India Senior Secondary Examination, July 2005

Marks: 81.5%

- Division: First Class

Major Subjects Studied in M.Tech

Foundations of Computing Science, Artificial Intelligence, Cryptography, Software Engineering, Advanced Computer Architecture, Object Oriented Systems, Machine Learning and Formal Verification.

PUBLICATIONS

Conferences

- *Kajori Banerjee*, Pallab Dasgupta - “Acceptance and Random Generation of Event Sequences under Real Time Calculus constraints”, DATE 2014.
- *Kajori Banerjee*, Santhosh Prabhu M, Pallab Dasgupta - “ Debugging Assertion Failures in Software Controllers using a Reference Model”, Indian Software Engineering Conference (ISEC) 2013.

POST GRADUATE SEMINARS

- “Covering A Set of Points with Minimum Number of Lines”, under the Guidance of Prof. Partha Bhowmick, IIT Kharagpur
- “Reasoning About Knowledge” under the Guidance of Prof. Pallab Dasgupta, IIT Kharagpur.

POST GRADUATE TERM PROJECTS

- “Email Label Classification”, under the Guidance of Prof. Pabitra Mitra, IIT Kharagpur
Brief Idea: Preprocessing of emails was done and each email was represented as a feature vector. A SVM classifier was trained and used for this purpose.
Tool: Matlab
- “MIPS Processor”, under the Guidance of Prof. Indranil Sengupta, IIT Kharagpur
Brief Idea: 5-stage pipelined version of MIPS was implemented in Verilog.

TEACHING EXPERIENCES

Teaching Assistants

- Foundations of Computing, Autumn 2012 with Prof. Pallab Dasgupta.
- Formal Systems , Spring 2013 with Prof. Pallab Dasgupta.
- Computing Lab, Autumn 2013 with Prof. Niloy Ganguly.

RESEARCH AND PROJECTS

Post-Graduate Research

Debugging Assertion Failures in Software Controllers using a Reference Model
Formal Methods for analyzing embedded software and communication

B. Tech. Project

“Distributed Chat Application”, - A group chat server was built using Java RMI.

COMPUTING SKILLS

Programming Languages : C, Java , Python
Hardware Description Language : Verilog
Parser : Flex/Bison
Tools/Simulators : NuSMV, SPIN, ESBMC, MODEX and lp_solve
Platforms : Linux, Solaris, Windows, Macintosh.

ACADEMIC ACHIEVEMENTS

Selected for the DAE Graduate Fellowship Scheme (DGFS) scheme in Bhaba Atomic Research Centre.
Qualified Graduate Aptitude Test in Engineering(GATE) exam 2011 with a rank of 286.
Department 2nd topper in Master’s of Computer Science at IIT Kharagpur.
Recipient of the M.H.R.D scholarship on account of qualifying the GATE examination.

REFERENCES

1. **Prof. Pallab Dasgupta**,
Department of Computer Science and Engineering,
Indian Institute of Technology Kharagpur, India,
email-id: pallab@cse.iitkgp.ernet.in
2. **Prof. Partha Pratim Chakrabarti**,
Department of Computer Science and Engineering,
Indian Institute of Technology Kharagpur, India,
email-id: ppchak@cse.iitkgp.ernet.in

3. **Prof. Niloy Ganguly**,
Department of Computer Science and Engineering,
Indian Institute of Technology Kharagpur, India,
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