

Yuetang **Deng**
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OBJECTIVE: A challenging career in research and teaching in the field of Computer Science.

EDUCATION: Ph.D. Candidate in Computer and Information Science
Polytechnic University, Brooklyn, NY
Expected graduation: June 2004
Minor: Electrical Engineering

M.S. in Computer and Information Science - May 2000
Polytechnic University, Brooklyn, NY

M.S. in Computer Science - June 1998
Jinan University, Guangzhou, P. R. China

B.S. in Applied Mathematics - June 1991
Peking University, Beijing, P. R. China

**RESEARCH
EXPERIENCE:**

09/1998 - Present

**Research Fellow, Department of Computer and Information Science,
Polytechnic University, Brooklyn, NY.**
Advisor: Phyllis Frankl, Professor.

Testing E-commerce Correctness and Security.
Joint work with P. Frankl (Polytechnic University),

Database Application Testing (supported by NSF and AT&T).
Joint work with P. Frankl (Polytechnic University),
F. Vokolos (Drexel University), and E. Weyuker (AT&T Research, Shannon Lab).

Assessing and Enhancing Software Testing Effectiveness (supported by NSF).
Joint work with P. Frankl (Polytechnic University)

09/1995 -6/1998

Research Fellow, Department of Computer Science, Jinan University. P. R. China
Advisor: Huoyan Chen, Professor.

**Object-Oriented Program Testing (supported by Guangdong Province Science
Foundation).**
Joint work with H. Y. Chen (Jinan University) and T. S. Xie (HongKong University)

**REFEREED
PUBLISHIONS**

“An AGENDA for Testing Relational Database Applications”,
D. Chays, Y. Deng, P. G. Frankl, S. Dan, F. I. Vokolos, and E. J. Weyuker,
Journal of Software Testing, Verification and Reliability, January 2004.

“Testing web database application”
Y. Deng, P. G. Frankl and J. Wong
Workshop on Testing, Analysis and Verification of Web Services, 2004

“Testing Database Application Transaction Concurrency”,
Y. Deng, P. G. Frankl and Z. Chen,
IEEE Automated Software Engineering 2003 (acceptance ratio: 13%).

"Demonstration of AGENDA Tool for Testing Relational Database Applications",
D. Chays and Y. Deng,
International Conference on Software Engineering, 2003.

“Comparison of Delivered Reliability of Branch, Data Flow And Statistical Testing: A Case Study”,
P. G. Frankl and Y. Deng,
International Symposium on Software Testing and Analysis, 2000.

“ROCS: an object-oriented class-level testing system based on the Relevant Observable ContextS Technique”,
H. Y. Chen, T. S. Xie and Y. Deng,
Information and Software Technology, July 2000.

**WORK:
IN PROGRESS**

“Testing Database Transaction Consistency”,
Y. Deng, P. G. Frankl and D. Chays,
CIS Technical Report, Polytechnic University, 2003, to be submitted to a conference

“Empirical studies of Test Effectiveness and Delivered Reliability”
Y. Deng and P. G. Frankl,
Technical Report, CIS Dept, Polytechnic University, 2003, to be submitted to a journal.

**WORK
EXPERIENCE:**

04/01-06/01: **Consultant**, Panasonic Network Technology Lab
Project: MPEG to DV transcoding software optimization

05/93-08/95: **Software Developer**, ObjectSense Software Corporation, P. R. China
Project:
An OO MIS in a taxi company (Borland C++, SQL Server, ODBC, Windows NT)
A Bank Settlement System (PowerBuilder, Sybase, X.25, SCO Unix)
A Multimedia Software (Win95, VB)

07/91-04/93: **Software Engineer**, Hunan Computer Group Company, P. R. China
Design and develop system software (DOS, UNIX, 8088 Assembler, C)

LANGUAGES: C/C++, Java, Python, Pascal , SQL, shell scripts, VB, Assembly Language, XML

DBMS & TOOLS : Sybase, Oracle, Postgresql, Access, Powerbuilder, Visual Studio, UML, OpenGL

**SYSTEM &
NETWORKING:** UNIX (Solaris/SCO), Linux, Windows series, TCP/IP, Socket.

AWARDS:

- Pearl Brownstein Doctoral Research Award for excellent Ph.D. thesis at Polytechnic University in 2004
- Research Fellow Supported By National Science Foundation Grant, 9/1998 - current
- Distinguished Award of National High School Mathematics Contest, 1986, P. R. China

REFERENCES:

1. Phyllis Frankl, Professor **(Thesis Advisor)**
Department of Computer & Information Science, Polytechnic University
5 Metrotech Center, Brooklyn, NY 11201
Phone: (718) 260-3870
Email: phyllis@morph.poly.edu
2. Elaine J. Weyuker, Technology Leader (AT&T Fellow, ACM Fellow,
IEEE Fellow, Member of National Academy of Engineering)
AT&T Labs-Research, Shannon Laboratory
180 Park Ave. Florham Park, NJ 07974
Phone: (973) 360-8645
Email: weyuker@research.att.com
3. Gleb Naumovich, Assistant Professor
Department of Computer & Information Science, Polytechnic University
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4. Torsten Suel, Assistant Professor
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