

Dr. Yoav Zibin

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RESEARCH INTERESTS

Compilers; Programming languages and in particular object-oriented programming.

EDUCATION

- Post-doctoral position** **09/2006 – 05/2007**
Program Analysis Group at MIT, MA, USA
Collaborative Learning for Security and Repair in application Communities
Supervisor: Michael D. Ernst
- CTES Scholarship** **09/2004 – 07/2005**
University College London (UCL), UK
Business training in Imperial College, Cambridge, and London Business School.
Implemented and evaluated an algorithm for efficient memory management for mobile phones, for licensing to Symbian's OS.
- Post-doctoral position** **04/2004 – 09/2004**
Technion—Israel Institute of Technology
Compilers for Object-Oriented Languages
Supervisor: Yossi Gil
- Ph.D. in Computer Science** **02/2002 – 05/2004**
Technion—Israel Institute of Technology GPA: 96.5
Advisor: Yossi Gil
Thesis: *Efficient Algorithms for the Runtime Environment of Object-Oriented Languages*
- M.Sc. in Computer Science** (transferred to direct Ph.D. studies) **11/1999 – 02/2002**
Technion—Israel Institute of Technology
Advisor: Yossi Gil
Thesis: *Efficient Subtyping Tests*
- B.A. in computer science** (in the Technion's excellence program) **10/1997 – 08/1999**
Technion—Israel Institute of Technology GPA: 98.2
Valedictorian (highest GPA among all graduates of this year)

PATENTS

U.S. Patent Application No. 10/146,141, by Y. Zibin and Y. Gil,
assigned to Technion, for *A Method of Encoding A Dataset*

May 16, 2002

EMPLOYMENT RECORD

CTO and co-founder of Come2Play	08/2005 – 09/2006 , 06/2007 – Now
Developed a multiplayer gaming platform: flash client that connects to a Java server	
Teaching Assistant	09/2004 – 07/2005
Computer Science Department, University College London (UCL)	
Lecturer	10/2003 – 03/2004
Computer Science Department, Technion—Israel Institute of Technology	
Teaching Assistant	11/1999 – 09/2003
Computer Science Department, Technion—Israel Institute of Technology	
Researcher and Programmer	08/1999 – 10/1999
Formal Verification Department, IBM—Haifa research lab, Israel.	

AWARDS

ACM SIGSOFT Distinguished Paper Award	FSE'07
Excellent Teacher Assistant Award	Spring 2002
Hershel Rich Technion Innovation Award	June 2002
VATAT—elite technology scholarship	02/2001 – 03/2004
Excellence scholarship	1998 – 2000

PUBLICATIONS

Journal papers

TOPLAS = *ACM Transactions on Programming Languages and Systems*

MSCS = *Mathematical Structures in Computer Science*

- TOPLAS Y. Gil, W. Pugh, G. E. Weddell, Y. Zibin. Two-Dimensional Bi-Directional Object Layout, Volume 30 , Issue 1, November 2008, pp 1–38.
- TOPLAS Y. Gil, Y. Zibin. Efficient Dynamic Dispatching with Type Slicing, Volume 30 , Issue 1, November 2007, pp 5–58.
- MSCS Y. Gil, Y. Zibin. Randomized Algorithms for Isomorphisms of Simple Types, Volume 17, Issue 3, June 2007, pp 565–584.
- MSCS Y. Gil, Y. Zibin. Efficient Algorithms for Isomorphisms of Simple Types, Volume 15, Issue 5, October 2005, pp 917–957.
- TOPLAS Y. Gil, Y. Zibin. Efficient Subtyping Tests with PQ-Encoding, Volume 27, Issue 5, September 2005, pp 819-856.

Conferences with Proceedings

- FSE'07 Y. Zibin, A. Potanin, M. Ali, S. Artzi, A. Kiezun, M. D. Ernst. Object and Reference Immutability using Java Generics.
- DISC'03 Y. Zibin. Condition-based Consensus in Synchronous Systems.
- ECOOP'03 Y. Zibin, Y. Gil. Two-Dimensional Bi-Directional Object Layout.
- POPL'03 Y. Zibin, Y. Gil, J. Considine. Efficient Algorithms for Isomorphisms of Simple

Types.

POPL'03 Y. Zibin, Y. Gil. Incremental Algorithms for Dispatching in Dynamically Typed Languages.

OOPSLA'02 Y. Zibin, Y. Gil. Fast Algorithm for Creating Space Efficient Dispatching Tables with Application to Multi-Dispatching.

OOPSLA'01 Y. Zibin, Y. Gil. Efficient Subtyping Tests with PQ-Encoding.

Workshops

GRAPHS'01 Y. Zibin, Y. Gil. PQ and 2-Dim Encodings for Efficient Subtyping Tests.

Posters

SwSTE'03 Y. Zibin. Efficient Algorithms for the Runtime Environment of Object-Oriented Languages, *IEEE International Conference on Software Science, Technology and Engineering*, Herzelia, Israel, November 2003.

COURSES TAUGHT

3C13/D6 Database and Information Management Systems, UCL. (T.A., Term2, 2005)

3C11 Functional Programming, UCL. (T.A., Term2, 2005)

1008 Principles of Programming, UCL. (T.A., Term2, 2005)

1B12 Theory I, UCL. (T.A., Term1, 2005)

1007 Principles of Programming, UCL. (T.A., Term1, 2005)

234117 Introduction to computer science, Technion. (Lecturer, 2004)

234319 Programming Languages, Technion. (T.A., 2000-2002)

236700 Software Design, Technion. (T.A., 2003)

236703 Object-Oriented Programming, Technion. (T.A., 2002)

REFERENCES

Dr. Yossi Gil

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mernst@csail.mit.edu

Prof. Ron Pinter

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Dr. Yoad Winter

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