Curriculum Vita

Chuck C. Liang

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Education

- Ph.D., Computer and Information Science, University of Pennsylvania, December 1995. Dissertation: *Object-Level Substitution, Unification and Generalization in Meta-Logic.*
- B.S., (Computer Science and Mathematics), University of Oregon, June 1989

Appointments

2011- Professor, Hofstra University

2004-2011 Associate Professor, Hofstra University

2000-04 Assistant Professor, Hofstra University

2000 (Summer) Research Associate, University of Minnesota

1999 (Summer) Research Associate, Pennsylvania State University

1998 (Summer) Adjunct Assistant Professor, Hartford Graduate Center

1997-2000 Visiting Assistant Professor, Trinity College

1996-97 Assistant Professor, Frostburg State University

1995-96 Postdoctoral Research Assistant, University of Pennsylvania.

1995-96 Instructor, University of Delaware.

1991-95 Graduate Research Assistant, University of Pennsylvania.

1990-91 Graduate Teaching Assistant, University of Pennsylvania.

Teaching Experiences (course numbers indicate those taught at Hofstra)

1. Fundamentals of Computer Science I (CSC 15)
2. Fundamentals of Computer Science II (CSC 16)
3. Fundamentals of Computer Science III (CSC 155)
4. Assembly Language Programming (CSC 111)
5. Operating Systems (CSC 112)
6. Programming Languages (CSC 123, CSC 253)
7. Data Communications and Networking (CSC 175)
8. Special Topics on Network Programming (CSC 145/290)
9. Special Topics on Distributed Middleware (CSC 290)
10. Computer Organization
11. Computer Architecture
12. Discrete Mathematics
13. Compiler Design and Implementation
14. Artificial Intelligence
15. Logic and Computation
16. Applications Programming with Microsoft Windows
17. Computers in a Modern Society

Services to Hofstra University

- Graduate Director for computer ccience, 2004-2006, and 2016-2017
- Academic Computing Committee, 2010-
- SEAS Curriculum Committee
- Interim department chair, Fall 2009
- Academic Affairs Committee, 2001-2005
- Athletic Policy Committee, 2006-2007
- ACM programming contest team coach, 2000-
- Various departmental committees

Research Publications

1. Chuck Liang. "On the Unification of Classical, Intuitionistic and Affine Logics." *Mathematical Structures in Computer Science.* Cambridge University Press, 2018.

2. Chuck Liang. "Unified Semantics and Proof System for Classical, Intuitionistic and Affine Logics." *The 31st ACM/IEEE Symposium on Logic in Computer Science* (LICS) 2016.

3. Chuck Liang and Dale Miller. "On Subexponentials, Synthetic Connectives, and Multi-Level Delimited Control." *Conference on Logic in Programming, Artificial Intelligence and Reasoning* (LPAR) 2015.

4. Chuck Liang and Dale Miller. "Unifying Classical and Intuitionistic Logics for Computational Control." *IEEE Logic in Computer Science Symposium* (LICS) 2013.

5. Chuck Liang and Dale Miller. "Kripke Semantics and Proof Systems for Combining Intuitionistic Logic and Classical Logic." *Annals of Pure and Applied Logic,* 2013.

6. Chuck Liang and Dale Miller. "A Focused Approach to Combining Logics." *Annals of Pure and Applied Logic,* 2011.

7. Chuck Liang and Dale Miller. "A Unified Sequent Calculus for Focused Proofs." *IEEE Logic in Computer Science Symposium* (LICS) 2009.

8. Chuck Liang and Dale Miller. "Focusing and Polarization in Linear, Intuitionistic and Classical Logic." *Journal of Theoretical Computer Science,* 2009.

9. Chuck Liang and Dale Miller. "Focusing and Polarization in Inutionistic Logic." *Conference on Computer Science Logic* (CSL) 2007

10. Chuck Liang and Dale Miller. "On Focusing and Polarities in Linear Logic and Intuitionistic Logic." Unpublished manuscript, December 2006.

11. Chuck Liang. "Aspect-Oriented Programming in Higher-Order and Linear Logic." *The 9th International Symposium on Practical Aspects of Declarative Languages.* Springer-Verlag Lecture Notes in Computer Science. Nice, France. January 2007.

12. Chuck Liang, Gopalan Nadathur and Xiaochu Qi. "Choices in Representation and Reduction Strategies for Lambda Terms in Intensional Contexts." *Journal of Automated Reasoning,* Vol 33, No. 2. pages 89-132. 2004.

13. Chuck Liang and Gopalan Nadathur. "Tradeoffs in the Intensional Representation of Lambda Terms." *The 13th International Conference on Rewriting Techniques and Applications.* pages 192-206. Springer-Verlag Lecture Notes in Computer Science No. 2378, 2002.

14. Chuck Liang. "Compiler Construction in Higher Order Logic Programming." *The 4th International Symposium on Practical Aspects of Declarative Languages.* pages 47-63. Springer-Verlag Lecture Notes in Computer Science No. 2257, 2002.

15. Chuck Liang. "A Deterministic Bottom-Up Parser Generator for a Logic Programming Language." *Proceedings of the First International Conference on Computational Logic,* pages 1315-1329. Springer-Verlag Lecture Notes in Artificial Intelligence No. 1861. 2000.

16. Chuck Liang. "Free Variables and Subexpressions in Higher-Order Meta Logic." *The 11th International Conference on Theorem Proving in Higher Order Logics,* pages 263-276. Springer-Verlag Lecture Notes in Computer Science Vol. 1479. 1998.

17. Chuck Liang. "Let-Polymorphism and Eager Type Schemes." *Proceedings of the 7th International Joint Conference on the Theory and Practice of Software Development.* Pages 490-501. Springer-Verlag Lecture Notes in Computer Science Vol. 1214, 1997.

18. Chuck Liang. "Substitutions for Proofs and Types as Logic Programming." Proceedings of the Workshop on Proof Search in Type Theoretic Languages, part of The 13th International Conference on Automated Deduction (CADE). Rutgers University, 1996.

19. Chuck Liang. "Specifying Object-Level Unification in λProlog." Proceedings of the Seventh International Workshop on Unification, edited by Wayne Synder. Boston University, 1993.

20. Chuck Liang. "λProlog Implementation of Ripple-Rewriting." Proceedings of the Workshop on the λProlog Programming Language, compiled by Dale Miller. University of Pennsylvania, August 1992.

Publications on Computer Science Education:

1. "Programming Language Concepts and Perl." Journal of the Consortium on Computing Sciences in Colleges, April 2004.

2. "A Course on TCP/IP Networking with Linux." Journal of Computing in Small Colleges, Vol. 15, No. 5. 2000

Grants

1. Faculty Associate on *Aquisition of a Beowulf Super Computer for Physical Science Research.* NSF 2003.

2. Hofstra University HCLAS Faculty Research and Development Grant, 2001, 2006