

# Eithon Cadag

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- EDUCATION ◇ **University of Washington**, Seattle, WA  
Ph.D., Biomedical and Health Informatics, expected graduation December 2009  
*Dissertation:* Automated learning of protein involvement in pathogenesis using integrated queries  
*Committee:* Peter Myler, Ph.D. (chair); Evan Eichler, Ph.D. (GSR); Ira Kalet, Ph.D.; William Noble, Ph.D.; Peter Tarczy-Hornoch, M.D.
- M.S., Biomedical and Health Informatics, June 2006  
*Thesis:* High-throughput inference-supported protein characterization utilizing the BioMediator data integration platform
- B.S., Informatics & B.A., Management Information Systems, *cum laude*; June 2004  
*Capstone:* User-Driven Design and Development of a Tag-Based Context Aware Computing System
- RESEARCH INTERESTS Data integration and data mining, bioinformatics, query methods for biomedical data, statistical learning, laboratory information systems, clinical genomics, biomedical artificial intelligence
- RESEARCH EXPERIENCE ◇ **University of Washington**, Seattle, WA; Sept. 2004 - current  
*Graduate research*  
Using statistical learning methods on integrated, aggregated data to make inferences on protein disease-relatedness; developed a light-weight, schema-based browsing engine to link and integrate heterogeneous sources (<http://pydi.sourceforge.net>).
- ◇ **Cerner Corporation**, Kansas City, MO; June. 2005 - Sept. 2005  
Software Engineer Intern, Medical Informatics Institute  
Developed visuals and logic for prototype drug compliance monitoring system.
- ◇ **Seattle Biomedical Research Institute**, Seattle, WA; Jun. 2002 - Sept. 2004  
Bioinformatics Intern, Trypanosome Genome project  
Research in *ab initio* gene identification using consensus algorithms, polycistronic strand-switch prediction and genome rearrangement.
- ◇ **University of Washington**, Seattle, WA; Aug. 2003 - Dec. 2003  
Work was conducted at and with **Intel Research Lab**, Seattle.  
Informatics Intern, Place Lab project  
Research in 802.11-driven contextual localization.
- ◇ **Intel Research Lab**, Seattle, WA; Feb. 2002 - Jun. 2003  
Informatics Intern, Labscape project  
User studies in the use of ubiquitous computing systems in biological laboratories.
- OTHER WORK EXPERIENCE ◇ **Arai/Jackson Architects and Planners**, Seattle, WA; Jun. 2001 - Jun. 2002  
Online Applications Developer

- ◇ **Arai/Jackson Architects and Planners**, WA; Seattle, Jan. 2001 - May 2001  
Accounting Assistant
  
- TEACHING AND INSTRUCTION ◇ **University of Washington**, Seattle, WA; Dec. 14, 2007  
Guest lecturer to biomedicine professionals for the BioResearcher Tune-Up  
Topic: "Integrating and analyzing data across biological databases"  
Instructor: Mark E. Minie, Ph.D.
- ◇ **University of Washington**, Seattle, WA; Sept. 5, 2007  
Guest lecturer to visiting students from Tokyo University of Pharmacy and Life Sciences  
Topic: "Introductory Bioinformatics for Scientific Research"
- ◇ **University of Washington**, Seattle, WA; Mar. 2007 - Jun. 2007  
Teaching assistant PABIO/MEBI 536, Bioinformatics and Sequence Analysis  
Duties included assisting students on content comprehension, scoring assignments.  
Instructors: Timothy Rose, Ph.D. & Peter Myler, Ph.D.
- ◇ **University of Washington**, Seattle, WA; Mar. 2007  
Lecturer on pathway analysis, PABIO590, Advanced Topics in Bioinformatics  
Prepared and taught presentation, accompanying material for topic; scored assignments.  
Instructor: Peter Myler, Ph.D.
- ◇ **University of Washington**, Seattle, WA; Jan. 2003 - Jun. 2003  
Peer tutor for CSE373, Data Structures and Algorithms; The Information School  
Assisted students in programming assignments.
  
- SERVICE AND EDITORIAL ◇ **Co-organizer** for the i2b2 Natural Language Processing Challenge 2009
- ◇ **Student volunteer** for the AMIA Fall Symposium 2009
- ◇ **External reviewer** for the AMIA Summit on Translational Bioinformatics 2009
- ◇ **Graduate student representative** for the Biomedical and Health Informatics admissions committee, University of Washington, 2007
- ◇ **President** of the Informatics Undergraduate Association, University of Washington, for the 2002 - 2003 academic year
  
- TECHNICAL AND LANGUAGE SKILLS ◇ **Operating systems and database experience**  
MS-DOS, Windows OS (3+), Linux (RedHat 7+, Suse 10+), Apple OS 10+; PostgreSQL (7+), SQL Server 2000+
- ◇ **Programming**  
Java, Python, C#, Lisp, C++; SQL
- ◇ **Language**  
Fluent English, conversational German and Japanese.
  
- HONORS AND AFFILIATIONS ◇ **Association for Computing Machinery**, 2009-
- ◇ **American Association for the Advancement of Science**, 2006-
- ◇ **American Medical Informatics Association**, 2005-
- ◇ **Phi Beta Kappa**, 2004-
- ◇ **Goldenkey National Honour Society**, 2002-
- ◇ **National Society of Collegiate Scholars**, 2000-
- ◇ **University of Washington Dean's List**, 2000-2004
  
- AWARDS ◇ **US Department of Defense/ASEE SMART Scholarship**, 2009
- ◇ **University of Washington GSFEI Travel Award**, July 2009

- ◇ **National Institutes of Health PSB Travel Award**, January 2007
- ◇ **National Library of Medicine Predoctoral Fellowship**, 2006-2009
- ◇ **Evert McCabe Endowed Scholarship**, 2002

PUBLICATIONS **Cadag, E.**, Tarczy-Hornoch, P., Myler, P.J., “On the reachability of trustworthy information from integrated exploratory biological queries”  
Proceedings of Data Integration in the Life Sciences (DILS), LNCS 5647:55-70, July 2009

**Cadag, E.**, Louie, B., Myler, P.J., Tarczy-Hornoch, P., “BioMediator data integration and inference for the functional annotation of anonymous sequences”  
Proceedings of the Pacific Symposium on Biocomputing (PSB), 12:343-354, January 2007

El-Sayed, N., Myler, P.J., Blandin, G., Berriman, M., Crabtree, J., Aggarwal, G., Caler, E., Renauld, H., Worthey, E., Hertz-Fowler, C., Ghedin, E., Peacock, C., Bartholomeu, D., Angiuoli, S., Anupama, A., Badger, J., Bringaud, F., **Cadag, E.**, and 23 others. “Comparative genomics of Trypanosomatid parasitic protozoa”  
Science, Vol 309, Issue 5733, July 2005

Ivens A.C., Peacock C.S., Worthey E.A., Murphy L., Aggarwal G., Berriman M., Sisk E., Rajandream M.A., Adlem E., Aert R., Anupama A., Apostolou Z., Attipoe P., Bason N., Bauser C., Beck A., Beverley S.M., Bianchetti G., Borzym K., Bothe G., Bruschi C.V., Collins M., **Cadag E.**, and 79 others. “The genome of the kinetoplastid parasite, Leishmania major”  
Science, Vol 309, Issue 5733, July 2005

El-Sayed N.M., Myler P.J., Bartholomeu D.C., Nilsson D., Aggarwal G., Tran A.N., Ghedin E., Worthey E.A., Delcher A.L., Blandin G., Westenberger S.J., Caler E., Cerqueira G.C., Branche C., Haas B., Anupama A., Arner E., Aslund L., Attipoe P., Bontempi E., Bringaud F., Burton P., **Cadag E.**, and 60 others. “The genome sequence of Trypanosoma cruzi, etiologic agent of Chagas’ disease”  
Science, Vol 309, Issue 5733, July 2005

Schilit, B., LaMarca, A., McDonald, D., Tabert, J., **Cadag, E.**, Boriello, G., Griswold, W. “Bootstrapping the Location-enhanced World Wide Web”  
Proceedings of the Location-Aware Computing Workshop, 2003 (workshop of UbiComp)

POSTERS & **Cadag, E.**, Tarczy-Hornoch, P., Myler, P. J., “Learning pathogenic proteins across fractured and heterogeneous data” (*Distinguished Poster Award*)  
ABSTRACTS Proceedings of the American Medical Informatics Association, Washington D.C., November 2008

**Cadag, E.**, Sivam, D., Myler, P.J., Tarczy-Hornoch, P. “Hybrid data integration and reasoning for genome annotation and curation”  
National Library of Medicine Training Directors’ Meeting, Stanford Univ., June 2007

PRESENT- **Cadag, E.**, Tarczy-Hornoch, P., “Supporting retrieval of diverse biomedical data using  
ATIONS evidence-aware queries”  
American Medical Informatics Association (AMIA), November 2009. San Francisco, California

Uzuner, Ö., Solti, I., **Cadag, E.**, “i2b2 NLP Challenges”  
i2b2 2009 NLP Challenge Workshop, November 2009 (workshop of AMIA). San Francisco, California

**Cadag, E.**, Tarczy-Hornoch, P., Myler, P.J. “High-throughput inference-supported protein characterization utilizing the BioMediator data integration platform.”  
International Partnership in Health Informatics Education Master Class, May 2006. Minneapolis, Minnesota

Aggarwal, G., Anupama, A., **Cadag, E.**, Myler, PJ “A novel method for identifying syntenic regions between Trypanosomatid genomes”  
TriTryp Genomes Meeting, September 2004. Seattle, Washington

**Cadag, E.**, Aggarwal, G., Anupama, A., Myler, PJ “Polycistronic-intelligent consensus and syntenous gene-finding in Trypanosomes”  
TriTryp Genomes Meeting, September 2004. Seattle, Washington