

# Jason Flannick

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- EDUCATION
- ◇ **Stanford University** *2003-Present*
    - Ph.D. in Computer Science *2009*
    - M.S. in Computer Science *2006*
    - Advisor: Serafim Batzoglou
    - Research Area: Computational Molecular Biology
    - Thesis Topic: Algorithms for Biological Network Alignment
  - ◇ **Cornell University** *1998-2002*
    - Bachelor of Arts, College of Arts and Sciences *2002*
    - Majors: Computer Science, Mathematics (cum laude), Physics (summa cum laude)
    - Cumulative 4.165 GPA (out of 4.0), Top 2 in graduating class, Distinction in all subjects
- EXPERIENCE
- ◇ **Stanford University**, Research Assistant *September 2003 – January 2009*

Performed research on computational genomics, functional genomics, and systems biology. Built software to perform cross-species comparisons of biological networks using custom algorithms and machine learning techniques.
  - ◇ **Stanford University**, Teaching Assistant *September – December, 2006–2007*

Assisted with Introduction to Algorithms course, including design and presentation of problem sections.
  - ◇ **Oracle Corporation**, Applications Engineer *July 2002 – August 2003*

Built web based product lifecycle management software. Coded using Java, JSPs, PL/SQL, and SQL.
  - ◇ **Amazon.com, Inc.**, Summer Intern *June 2001 – August 2001*

Worked to develop software in Java, C, and Perl to replace outdated forecasting and purchasing tools as a member of the Inventory Planning team.
  - ◇ **Cornell High Energy Synchrotron Source**, Summer Intern *June 2000 – August 2000*

Wrote a client in Java and server in C to enable scientists to retrieve and display live and stored data from the Wilson Laboratory signal archives.
- SKILLS
- ◇ **Languages:** C/C++, Java, Perl, Python, R, PL/SQL, Matlab, DHTML, CSS
  - ◇ **Operating Systems:** Unix, Windows, OSX
- HONORS
- ◇ **Stanford University:** 2003 Stanford Graduate Fellow
  - ◇ **NSF:** Honorable Mention, 2003 Graduate Fellowship
  - ◇ **Cornell University:** College of Arts and Sciences Degree Marshall
  - ◇ **Cornell Physics Department:** 2002 Kieval Award (Excellence in undergraduate physics)
  - ◇ **Societies:** Phi Beta Kappa, Golden Key International Honour Society
  - ◇ **Deans List:** Cornell University, Fall 1998 – Spring 2002

- RESEARCH INTERESTS Computational genomics, systems biology, functional genomics, biological networks. Applications of machine learning, data mining, and algorithm design to complex high-throughput biological data.
- PUBLICATIONS
- ◇ Flannick J, Novak A, Srinivasan B S, Batzoglou S. **Automatic Parameter Learning for Local Network Alignment**. *Accepted*.
  - ◇ Boutte C C, Srinivasan B S, Flannick J, Novak A, Martens A, Batzoglou S, Viollier P H, Crosson S. **Genetic and Bioinformatic Identification of a Conserved Bacterial Metabolic Module**. *PLoS Genetics*, 2008.
  - ◇ Flannick J, Novak A, Do C B, Srinivasan B S, Batzoglou S. **Automatic Parameter Learning for Multiple Network Alignment**. *Proceedings of the Twelfth Annual International Conference on Computational Molecular Biology, (RECOMB 2008)*, pp. 214.
  - ◇ Srinivasan B S, Shah N H, Flannick J, Abeliuk E, Novak A, Batzoglou S. **Current progress in network research: toward reference networks for key model organisms**. *Briefings in Bioinformatics*, 2007.
  - ◇ Flannick J, Novak A, Srinivasan B S, McAdams H H, Batzoglou S. **Græmlin: General and Robust Alignment of Multiple Large Interaction Networks**. *Genome Research* **16(9)**, 2006.
  - ◇ Srinivasan B S, Novak A, Flannick J, Batzoglou S, McAdams H. **Integrated Protein Interaction Networks for 11 Microbes**. *Proceedings of the Tenth Annual International Conference on Computational Molecular Biology, (RECOMB 2006)*, pp. 114.
  - ◇ Flannick J, Batzoglou, S. **Using multiple alignments to improve seeded local alignment algorithms**. *Nucleic Acids Research* **33(14)**: 4563-77, 2005.
  - ◇ Burdick D, Calimlin M, Flannick J, Gehrke J, Yiu T. **MAFIA: A Performance Study of Mining Maximal Frequent Itemsets**. *FIMI 2003*.
  - ◇ Ayres J, Flannick J, Gehrke J, Yiu, T. **Sequential PAttern Mining using a bitmap representation**. *KDD 2002*: 429-435
- CONFERENCES
- ◇ Flannick J, Novak A, Batzoglou S. **Automatic Parameter Learning for Multiple Network Alignment**. *Cold Spring Harbor Laboratories Conference on Genome Informatics*, 2007.
  - ◇ Novak A, Flannick J, Srinivasan B S, McAdams H H, Batzoglou S. **Scalable and General Pairwise and Multiple Network Alignment**. *Cold Spring Harbor Laboratories Conference on Genome Informatics*, 2005.
  - ◇ Flannick J, Batzoglou S. **Using multiple alignments to improve seeded local alignment algorithms** (Poster). *Cold Spring Harbor Laboratories conference on Genome Informatics*, 2005.