

CURRICULUM VITAE : ANNA DIVOLI

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RESEARCH AND TEACHING APPOINTMENTS

- November 2007-** **The University of Chicago, USA**
Postdoctoral Scholar in Prof. Rzhetsky's group. I am working on a text mining project on cancer metastasis with the Ludwig Institute of Cancer Research.
- May 2006-** **University of California, Berkeley, USA**
November 2007 Postdoctoral Scholar in Prof. Hearst's group. I worked on the "BioText" project.
- March 2005-** **The University of Manchester, UK**
March 2006 Research Assistant in Prof. Attwood's group. I worked on a project for integrating and improving the efficiency of biomedical text-mining tools (funded by EPSRC).
- January 2002-** **The University of Manchester, UK**
June 2005 Teaching Assistant – Practical Sessions Demonstrator
2002: Biochemistry (Biology undergraduates), 2002-2005: Information Technology & Statistics (Biology postgraduates & Medical/Dental students), 2005: Bioinformatics (Biology undergraduates).
- October-** **Inpharmatica Ltd., London, UK**
November 2003 Research project on clustering documents based on their word usage and visualising them and their content in 3D space.
- October-** **The University of Liverpool, UK**
December 2001 Short research project for Dr. Ray Paton. I investigated relationships of many different proteins and the verbs appearing in the corresponding literature.

EDUCATION

- 2002-2006** **PhD in Bioinformatics - The University of Manchester, UK**
Thesis: "Biomedical Text Mining Approaches: Applications in Protein Family Annotation"
- 2000-2001** **MSc in Biosystems and Informatics - The University of Liverpool, UK**
Thesis: "Applications of Computational Linguistics for the Investigation of the Functional Genomics of Eukaryotic Transcription Factors"
- 1996-1999** **BSc(Hons) in Biomedical Sciences - The Manchester Metropolitan University, UK**
Project: "Study of kinetic behaviour of the free and immobilised forms of β -galactosidase"

HONORS AND AWARDS

- 2009: Participation and travel award for 4th annual Rice NSF ADVANCE "Negotiating the Ideal Faculty Position: A Workshop for Women in Science & Engineering", at Rice University
- 2008: Travel award for the PSB, sponsored by the National Institute of Health
- 2005: ECCB - ISCB SC Symposium Best Student Presentation Award, sponsored by BMC Bioinformatics
- 2002: BBSRC CASE studentship with Inpharmatica Ltd.
- 2001: Roy Cuthbertson Memorial Prize for best overall performance in the MSc in Biosystems & Informatics
- 2000: "Lab Support UK" Award for professionalism and drive for excellence

SOFTWARE DEVELOPMENT

- BioText Search Engine: Journal Search Engine Showing Figures and Captions
- BioQSpace: An interactive visualisation tool for clustering PubMed abstracts
- METIS: Multiple Extraction Techniques for Informative Sentences
- BioIE: extracting informative sentences from the biomedical literature

PAPERS

- Divoli, A.**, Hearst, M.A. and Wooldridge, M.A. (2008) "Evidence for Showing Gene/Protein Name Suggestions in Bioscience Literature Search", PSB 2008, Hawaii, USA (Conference Paper)
- Morgan, A.A., Lu, Z., Wang, X., Cohen, A.M., Fluck, J., Ruch, P., **Divoli, A.**, Fundel, A., Leaman, R., Hakenberg, J., Sun, C., Liu, H., Torres, R., Krauthammer, M., Lau, W.W., Liu, H., Hsu, C-N., Schuemie, M., Cohen, K.B., Hirschman, L. (2008) "Overview of BioCreative II gene normalization", *Genome Biology*, 9(Suppl 2):S3
- Smith, L., Tanabe, L.K., Johnson nee Ando, R., Kuo, C-J., Chung, I-F., Hsu, C-N., Lin, Y-S., Klinger, R., Friedrich, C.M., Ganchev, K., Torii, M., Liu, H., Haddow, B., Struble, C.A., Povinelli, R.J., Vlachos, A., Baumgartner, W.A., Hunter, L., Carpenter, B., Tsai, R.T-H., Dai, H-J., Liu, F., Chen, Y., Sun, C., Katrenko, S., Adriaans, P., Blaschke, C., Torres, R., Neves, M., Nakov, P., **Divoli, A.**, Maña-López, M., Mata, J., Wilbur, J.W. (2008) "Overview of BioCreative II gene mention recognition" *Genome Biology*, 9(Suppl 2):S2
- Hearst, M.A., **Divoli, A.**, Guturu, H., Ksikes, A., Nakov, P., Wooldridge, M. and Ye, J. (2007) "BioText Search Engine: beyond abstract search", *Bioinformatics*, 23: 2196-2197
- Schwartz, A., **Divoli, A.** and Hearst, M.A. (2007) "Multiple alignment of citation sentences with conditional random fields and posterior decoding", EMNLP-CoNLL 2007, Prague, Czech Republic (Conference Paper)
- Hearst, M.A., **Divoli, A.**, Ye, J. and Wooldridge, M.A. (2007) "Exploring the Efficacy of Caption Search for Bioscience Journal Search Interfaces", BioNLP Workshop at ACL 2007, Prague, Czech Republic (Workshop Paper)
- Nakov, P. and **Divoli, A.** (2007) "BioText Report for the Second BioCreative Challenge", Proceedings of the Second BioCreative Challenge Evaluation Workshop, Madrid, Spain (Participation Report Paper)
- Divoli, A.**, Hearst, M.A., Nakov, P.I., Schwartz, A. and Ksikes, A. (2006) "BioText Team Report for the TREC 2006 Genomics Track", The Fifteenth Text REtrieval Conference Proceedings, Gaithersburg, MD, USA (Participation Report Paper)
- Mitchell, A.L., **Divoli, A.**, Kim, J.-H., Hilario, M., Selimas, I. and Attwood, T.K. (2005) *METIS: Multiple Extraction Techniques for Informative Sentences*, *Bioinformatics*, 21: 4196-4197
- Divoli, A.** and Attwood, T.K. (2005) *BioIE: extracting informative sentences from the biomedical literature*, *Bioinformatics*, 21: 2138-2139

SHORT PAPERS, ABSTRACTS AND POSTERS

- Hearst, M.A., Wooldridge, M.A., Ye, J. and **Divoli, A.** (2007) "Showing Figures and Captions in the BioText Journal Search Engine", ISMB/ECCB 2007, Vienna, Austria (Poster Presentation)
- Divoli, A.**, Winter, R., Pettifer, S. and Attwood, T.K. (2005) "BioQSpace: An interactive visualisation tool for clustering MEDLINE abstracts", ECCB ISCB SC Symposium, Madrid, Spain (Oral & Poster Presentation)
- Divoli, A.** and Attwood, T.K. (2005) "Text-mining challenges for protein family database annotation", ISMB, Detroit, USA (Oral & Poster Presentation)
- Divoli, A.** and Attwood, T.K. (2005) "Protein Family Databases: Text-Mining and Annotation", ISMB BioLINK SIG Workshop, Detroit, USA (Short Paper & Poster Presentation)
- Divoli, A.**, Mitchell, A.L., Bradley, P. and Attwood, T.K. (2004) "METIS: Multiple Extraction Techniques for Informative Sentences", ISMB/ECCB, Glasgow, UK (Poster Presentation)
- Mitchell, A.L., Bradley, P., **Divoli, A.** and Attwood, T.K. (2004) "Sequence Analysis Workshop", MIPNETS training meeting, Liverpool, UK (Workshop Organised)
- Divoli, A.** and Attwood, T.K. (2003) "Automated Information Extraction from the Biomedical Literature", MIPNETS meeting in Proteins & Signals, Liverpool, UK (Poster Presentation)

PROGRAM COMMITTEE / REVIEWER FOR:

- Bioinformatics (Journal)
- Genome Biology (Journal)
- ISMB/ECCB 2009, Stockholm, Sweden
- CHI, April 2009, Boston, USA
- International Conference on Health Informatics (HEALTHINF), January 2009, Porto, Portugal
- Workshop on Biological Data Management (BIDM), September 2007, DEXA, Regensburg, Germany
- BioNLP Workshop of ACL, June 2007, Prague, Czech Republic
- Second BioCreative challenge, April 2007, Madrid, Spain
- Bioinformatics Research and Development (BIRD), March 2007, Berlin, Germany
- International Workshop on Knowledge Discovery in Life Science Literature (KDLL), April 2006, PAKDD, Singapore