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EDUCATION:

2002-2004 Yale University, New Haven, CT

M.S. Computational Biology and Bioinformatics (3.4/4.0 GPA)

1998-2002 Washington and Lee University, Lexington, VA

B.S. Computer Science (4.1/4.0 major GPA, 3.4/4.0 overall GPA)

Graduated cum laude

Departmental Honors (Thesis: A parallel algorithm for the alignment of two genome-scale DNA sequences.)

AFFILIATIONS:

Association for Computing Machinery

Yale Biotechnology Special Interest Group

PUBLICATIONS:

Royce TE, Rozowsky JS, Bertone P, Samanta M, Stolc V, Weissman S, Snyder M, Gerstein M. Issues in the analysis of tiling microarrays. (submitted).

Bertone P, Stolc V, Royce TE, Rozowsky JS, Urban AE, Zhu X, Rinn JL, Tongprasit W, Samanta M, Weissman S, Gerstein M, Snyder M. Global Identification of Human Transcribed sequences with Genome Tiling Arrays. *Science*. 2004 Dec 24;306(5705):2242-6. Epub 2004 Nov 11.

ENCODE Project Consortium. The ENCODE (ENCyclopedia Of DNA Elements) Project. *Science*. 2004 Oct 22;306(5696):636-40.

Hall DA, Zhu H, Zhu X, Royce T, Gerstein M, Snyder M. Regulation of Gene Expression by a Metabolic Enzyme. *Science*. 2004 Oct 15;306(5695):482-4.

Lehnert U, Xia Y, Royce TE, Goh CS, Liu Y, Senes A, Yu H, Zhang Z, Engelman DM, Gerstein M. Computational analysis of membrane proteins: genomic occurrence, structure prediction and helix interactions. *Quarterly Review in Biophysics*. Epub 2004 Aug 31.

Euskirchen G, Royce TE, Bertone P, Martone R, Rinn JL, Nelson FK, Sayward F, Luscombe NM, Miller P, Gerstein M, Weissman S, Snyder M. CREB binds to multiple loci on human chromosome 22. *Mol Cell Biol*. 2004 May;24(9):3804-14

Borneman A, Euskirchen G, Martone B, Hartman S, Horak C, Rinn J, Bertone P, Royce T, Nelson K, Miller P, Luscombe N, Yu H, Weissman S, Gerstein M, Snyder M. Deducing transcriptional regulatory circuits and their conservation in yeast and humans. *FASEB Journal* 18 (8): C121-C122 Suppl. S, May 14 2004

Lian Z, Euskirchen G, Rinn J, Martone R, Bertone P, Hartman S, Royce T, Nelson K, Sayward F, Luscombe N, Yang J, Li JL, Miller P, Urban AE, Gerstein M, Weissman S, Snyder M. Identification of novel functional elements in the human genome. *Cold Spring Harb Symp Quant Biol*. 2003;68:317-22.

Martone R, Euskirchen G, Bertone P, Hartman S, Royce TE, Luscombe NM, Rinn JL, Nelson FK, Miller P, Gerstein M, Weissman S, Snyder M. Distribution of NF- κ B-binding sites across human chromosome 22. *Proc Natl Acad Sci U S A*. 2003 Oct 14;100(21):12247-52. Epub 2003 Oct 03.

Luscombe NM, Royce TE, Bertone P, Echols N, Horak CE, Chang JT, Snyder M, Gerstein M. ExpressYourself: A modular platform for processing and visualizing microarray data. *Nucleic Acids Res*. 2003 Jul 1;31(13):3477-82.

Royce TE, Necaie R. A parallel algorithm for DNA alignment. *ACM Crossroads*. 2003 Mar; 9(3):10-15