

Ming-Chih J. Kao

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WWW <http://wnlreason.org>

Education

7/2007 — 06/2008 Yale-New Haven Hospital New Haven, CT

Internal Medicine Internship

8/2003 — 5/2007 University of Michigan Medical School Ann Arbor, MI

M.D.

9/1999 — 6/2005 Harvard University Cambridge, MA

Ph.D., Biostatistics

"Computational and Statistical Approaches to the Study of the Genetic Bases of Human Diseases"

8/1994 — 8/1999 University of California, Berkeley Berkeley, CA

B.A., Molecular & Cell Biology and Psychology

Grants and Scholarships

8/2003 — 5/2007 University of Michigan Medical School

Dean's Scholarship

9/2000 — 7/2003 Howard Hughes Medical Institute

HHMI Pre-Doctoral Fellowship

9/1999 — 8/2000 National Institute of Mental Health

NIMH Research Scientist Training Program

Board Exams

Step 1 260 / 99

Step 2 257 / 99

Step 3 241 / 99

Medical Licensure

California applied 7/2008

Extra-Curricular Activities

Fall 2003 — Spring 2005 Board Member **University of Michigan Project H**

Fall 2004 — Spring 2005 President **AGS Student Chapter**
(American Geriatrics Society)

Fall 2004 — Spring 2005 Lecture & Mentorship Committee **UAAMSA**
(United Asian Am Med Student Association)

Publications

Kao MCJ, Lee, R. *Nutritional predictors of lower back pain.* (in preparation)

Kao MCJ, Ide NC, Zarin D. *Registration of Medical Device Clinical Trials.* (in preparation)

Leykin I, Kao MCJ, Wong WH. *HumanUpstream and MouseUpstream, Databases of Promoter Sequences in the Human and Mouse Genomes.* OMICS 9(3), 2005.

Zhou XH, Kao MCJ, Huang H, Wong A, Nunez-Iglesias J, Primig M, Aparicio OM, Finch CE, Morgan TE, Wong WH. *Functional Annotation and Network Reconstruction Through Cross-Platform Integration of Microarray Data.* Nature Biotechnology 23(2), 2005, 238-243.

Zhong S, Storch FK, Lipan O, Kao MCJ, Weitz C, Wong WH. *GoSurfer: A Graphical Interactive*

Tool for Comparative Analysis of Large Gene Sets in GeneOntology Space. Applied Bioinformatics 3(4), 2004, 261-4.

Kao MCJ*, Huang H*, Zhou XH, Liu JS, Wong WH. Determination of Local Statistical Significance of Patterns in Markov Sequences with Application to Promoter Element Identification. Journal of Computational Biology 11(1), 2004, 1-14. (*co-first-authors)

Koeller KM, Haggarty SJ, Perkins B, Leykin I, Wong JC, Kao MCJ, Schreiber SL. Chemical Genetic Modifier Screens: Small Molecule Trichostatin Suppressors as Probes of Intracellular Histone and Tubulin Acetylation. Chemistry and Biology 10(5), 2003, 397-410.

Zhou XH, Krueger JG, Kao MCJ et al. Novel Mechanisms of T-Cell and Dendritic Cell Activation Revealed by Profiling of Psoriasis on the 63,100-Element Oligonucleotide Array. Physiological Genomics 13(1), 2003, 69-78.

Zhou XH, Kao MCJ, Wong WH. Transitive Functional Annotation by Shortest Path Analysis of Gene Expression Data. Proceedings of the National Academy of Science 99(20), 2002, 12783-12788.

Peer-Reviewed Conference Abstracts and Talks

Kao MCJ, Zhou XH, Wong WH. Shortest Path Analysis and 2nd-Order Analysis. 38th Symposium on the Interface of Statistics, Computing science, and Applications, May 2006, Pasadena, CA.

Zhou XH, Kao MCJ, Wong WH. Predicting Gene Functions by Shortest Path Analysis of Gene Expression Data. The 6th International Conference on Computational Molecular Biology (RECOMB 2002).

Leykin I, Kao MCJ, Lipan O et al. Identification of cis-Regulatory Elements and Their Combination in Mammalian Promoter Sequences. The 6th International Conference on Computational Molecular Biology (RECOMB 2002).

Zhong R, Lipan O, Storch KF, Kao MCJ et al. GoSurfer: A Visualization Tool for Comparative Gene Analysis. The 10th International Conference on Intelligent Systems for Molecular Biology (ISMB 2002).

Teaching Experience

Spring 2005
Guest Lecturer University of Michigan School of Public Health
"Computational Biology"

Spring 2002
Teaching Assistant Harvard School of Public Health
"Computational Biology"

Spring 2001
Teaching Assistant Harvard School of Public Health
"Regression Analysis"

Professional Experience

Fall 2008
Statistical Consultant National Institutes of Health
ClinicalTrials.Gov

Spring 2007
Research Assistant National Institutes of Health
ClinicalTrials.Gov

Winter 2005 – 12/2006 Research Assistant	University of Michigan Health System <i>The OMP Project</i>
Summer 2004 – 5/2007 Research Assistant	University of Southern California <i>Zhou Computational Biology Laboratory</i>
Spring 2003 – Summer 2003 Research Assistant	Brigham and Women’s Hospital <i>Department of Emergency Medicine</i>
Summer 2000 – Fall 2003 Research Assistant	Harvard School of Public Health <i>Wong Computational Biology Laboratory</i>
Summer 1996 – Spring 1997 Research Assistant	UC Berkeley <i>Jacobs Biological Psychology Laboratory</i>

**Professional
Organizations**

American Medical Association (AMA)
American Geriatrics Society (AGS)

American Statistical Association (ASA)
Society for Clinical Trials (SCT)