

**Yuanfang Guan**  
**Assistant Professor**  
2044 Palmer Commons  
100 Washtenaw Avenue, Ann Arbor, MI  
Phone: 734-764-0018  
Email: gyuanfan@umich.edu

## Education and Training

### Education

09/2002-06/2005 BS, Biology, University of Hong Kong, Hong Kong, Hong Kong  
09/2005-05/2010 PhD, Molecular Biology, Princeton University, Princeton, NJ

### PostDoctoral Training

06/2010-09/2011 Postdoctoral Fellow, Integrative Genomics, Princeton University, Princeton, NJ

## Academic, Administrative, Clinical and Military Appointments

### Academic Appointments

10/2011-09/2012 Research Investigator, University of Michigan, Ann Arbor, MI  
10/2012-present Assistant Professor, University of Michigan, Ann Arbor, MI

## Research Interests

- Integrative Genomics

## Grants

### Current Grants

*Michigan Alzheimer's Disease Core Center* NIH  
Co-I (Principal Investigator: Paulson)  
09/2016-08/2021

*Cross-disease brain image modeling* Alzheimer's Association  
Yuanfang Guan, PI  
11/2015-03/2018

*Mechanisms of Polyglutamine Neurodegeneration* NIH  
Co-I (Principal Investigator: Paulson)  
07/2015-06/2020

*CAREER: On-line Service for Predicting Protein Phosphorylation Dynamics Under Unseen Perturbations* NSF  
Yuanfang Guan, PI  
04/2015-09/2020

*University of Michigan O'Brien Kidney Translational Core Center* NIH  
Co-I (Principal Investigator: Pennathur)  
11/2013-10/2018

*European Consortium for High-Throughput Research in Rare Kidney Diseases* University of Heidelberg  
Co-I (Principal Investigator: Kretzler)  
06/2012-05/2017

### Past Grants

*Integrating context-specific networks to predict ataxia genes* NIH  
Yuanfang Guan, Margit Burmeister, PI  
03/2013-06/2015

## Honors and Awards

### International

2013	First place in DREAM Breast Cancer Network Inference - sub-challenge 2
2014	First place in DREAM Alzheimer BigData Challenge #1
2014	First place in DREAM Broad Institute Gene Essentiality Challenge - sub-challenge 2
2014	First place in DREAM Rheumatoid Arthritis Challenge
2015	First place in DREAM ALS Stratification Prize4Life Challenge
2015	First place in DREAM Olfaction Challenge
2015	First place in DREAM Prostate Cancer Challenge - sub-challenge 2
2016	First place in DREAM AstraZeneca Drug Combination Prediction Challenge
2016	First place in ICGC-TCGA-DREAM Somatic Mutation Calling Challenge -- Tumor Heterogeneity and Evolution
2017	First place in DREAM ENCODE Transcription Factor Binding Site Prediction Challenge

### National

2015	NSF CAREER AWARD
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### Institutional

2001	First Prize Scholarship (for ranking number 2 in China National College Entrance Exam)
2002-2005	Hong Kong Jockey Club scholarship (full fellowship for 3-year undergraduate study in HKU)
2004	BSc Class of 1971 Prize (the best student in Physical Sciences, among those completing BSc 2nd year in HKU)
2004	Dr. Sprint Chen Memorial Prizes in Botany (for ranking 1st in GPA among 2nd year of BS major or minor in Biological Sciences in HKU)
2004	Li Po Kwai Scholarships (for ranking 1st in GPA in 2nd year of BS in HKU who major or minor in physics)
2005	Dean's Honours List
2005	Lee Chung Yin Jubilee Prize in Zoology (for ranking first in GPA among BS 3rd year students major or minor in biological science in HKU)
2005	Li Po Kwai Scholarships (for ranking 1st in GPA in 3rd year of BS in HKU who major or minor in physics.)

## Editorial Positions, Boards, and Peer-Review Service

### Study Sections

#### International

2015-present	Natural Sciences and Engineering Research Council of Canada (NSERC) (Ad Hoc)
2017-present	Alzheimer's Foundation (Ad Hoc)

#### Journal Reviewer

2010-present	Bioinformatics (Ad Hoc)
2012-2013	PSB (Ad Hoc)
2012-present	PLoS One (Ad Hoc)
2013-present	BMC systems biology (Ad Hoc)
2013-present	Bioanalysis (Ad Hoc)
2013-present	PLoS Computational Biology (Ad Hoc)
2013	BMC Bioinformatics (Ad Hoc)
2014-present	BMC Genomics (Ad Hoc)
2014-present	Molecular and Cellular Biology (Ad Hoc)

2014-present	Proteomics (Ad Hoc)
2015-present	Computers in Biology and Medicine (Ad Hoc)
2016-present	Cell (Ad Hoc)
2017-present	BioData Mining (Ad Hoc)

## Teaching

### Graduate Student

09/2012-present	Ridvan Eksi, Ph.D., University of Michigan
09/2015-04/2017	Zhengnan Huang, Master, University of Michigan
09/2015-present	Hongjiu Zhang, Ph.D., University of Michigan
09/2016-present	Marlena Duda, Ph.D., University of Michigan
01/2017-present	Tingyang Li, Ph.D., University of Michigan
03/2017-present	Hongyang Li, Ph.D., University of Michigan

### Postdoctoral Fellow

09/2012-06/2015	Hongdong Li, Postdoc, University of Michigan
03/2013-06/2015	Fan Zhu, Postdoc, University of Michigan

### Undergraduate Student

09/2012-09/2013	Benjamin Toll, B.S., University of Michigan
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## Teaching Activity

### Institutional

09/2014-present	BIOINFO603 Journal Club
09/2015-present	BIOINFO585 Machine Learning

### Dissertation Committees

2015	Avinash Kumar Shanmugam, Proteomics, University of Michigan, DCMB, Committee Member
2017	Andy Kong, Computational strategies for proteogenomics analyses, University of Michigan, DCMB, Committee Member
Present	Chengxin Zhang, Protein structure prediction, University of Michigan, DCMB, Committee Member
Present	Hongjiu Zhang, Cancer genomics, University of Michigan, DCMB, Chair
Present	Ridvan Eksi, Novel isoform discovery in nephrotic syndrome, University of Michigan, DCMB, Chair
Present	Shengcheng Dong, Regulatory Genomics, University of Michigan, DCMB, Committee Member

## Visiting Professorships and Extramural Invited Presentations

### Other

1. Predicting isoform function through multiple instance learning, ISMB, July 2014, Boston, MA
2. A strategy to select most informative biomarkers for cancer cell lines, RECOMB RegSysGen, November 2014, San Diego, CA
3. Predicting discontinuation due to adverse effect in mCRPC, RECOMB RegSysGen, November 2015, Philadelphia, PA
4. Predicting ALS survival through complete ranking of censored data, RECOMB RegSysGen, November 2015, Philadelphia, PA
5. Predicting olfaction response for each individual, RECOMB RegSysGen, November 2015, Philadelphia, PA

## Bibliography

### Peer-Reviewed Journals and Publications

1. Guan Y, Dunham MJ, Troyanskaya OG: Functional analysis of gene duplications in *Saccharomyces cerevisiae* *Genetics* 175(2): 933-943, 2006. PM17151249
2. Lui WY, Wong EW, Guan Y, Lee WM: Dual transcriptional control of claudin-11 via an overlapping GATA/NF-Y motif: Positive regulation through the interaction of GATA, NF-YA, and CREB and negative regulation through the interaction of Smad, HDAC1, and mSin3A *J. Cell. Physiol.* 211(3): 638-648, 2007. PM17226765
3. Guan Y, Myers CL, Lu R, Lemischka IR, Bult CJ, Troyanskaya OG: A genome-wide functional network for the laboratory mouse *PLoS Comput. Biol.* 4(9): 2008. PM18818725
4. Peña-Castillo L, Tasan M, Myers CL, Lee H, Joshi T, Zhang C, Guan Y, Leone M, Pagnani A, Kim WK, Krumpelman C, Tian W, Obozinski G, Qi Y, Mostafavi S, Lin GN, Berriz GF, Gibbons FD, Lanckriet G, Qiu J, Grant C, Barutcuoglu Z, Hill DP, Warde-Farley D, Grouios C, Ray D, Blake JA, Deng M, Jordan MI, Noble WS, Morris Q, Klein-Seetharaman J, Bar-Joseph Z, Chen T, Sun F, Troyanskaya OG, Marcotte EM, Xu D, Hughes TR, Roth FP: A critical assessment of *Mus musculus* gene function prediction using integrated genomic evidence *Genome Biol.* 9(SUPPL. 1): 2008. PM18613946
5. Guan Y, Myers CL, Hess DC, Barutcuoglu Z, Caudy AA, Troyanskaya OG: Predicting gene function in a hierarchical context with an ensemble of classifiers *Genome Biol.* 9(SUPPL. 1): 2008. PM18613947
6. Guan Y, Ramalingam S, Nagegowda D, Taylor PW, Chye ML: *Brassica juncea* chitinase BjCHI1 inhibits growth of fungal phytopathogens and agglutinates Gram-negative bacteria *J. Exp. Bot.* 59(12): 3475-3484, 2008. PM18669819
7. Guan Y, Chye ML: A *Brassica juncea* chitinase with two-chitin binding domains show anti-microbial properties against phytopathogens and Gram-negative bacteria *Plant Signal Behav* 3(12): 1103-1105, 2008. PM19704507
8. Guan Y, Ackert-Bicknell CL, Kell B, Troyanskaya OG, Hibbs MA: Functional genomics complements quantitative genetics in identifying disease-gene associations *PLoS Comput. Biol.* 6(11): 2010. PM21085640
9. Guan Y, Dunham M, Caudy A, Troyanskaya O: Systematic planning of genome-scale experiments in poorly studied species *PLoS Comput. Biol.* 6(3): 2010. PM20221257
10. Guan Y, Yao V, Tsui K, Gebbia M, Dunham MJ, Nislow C, Troyanskaya OG: Nucleosome-coupled expression differences in closely-related species *BMC Genomics* 12: 2011. PM21942931
11. Guan Y, Gorenshteyn D, Burmeister M, Wong AK, Schimenti JC, Handel MA, Bult CJ, Hibbs MA, Troyanskaya OG: Tissue-Specific Functional Networks for Prioritizing Phenotype and Disease Genes *PLoS Comput. Biol.* 8(9): 2012. PM23028291
12. Wong AK, Park CY, Greene CS, Bongo LA, Guan Y, Troyanskaya OG: IMP: A multi-species functional genomics portal for integration, visualization and prediction of protein functions and networks *Nucleic Acids Res.* 40(W1): W484-W490, 2012. PM22684505
13. Yang ZK, Niu YF, Ma YH, Xue J, Zhang MH, Yang WD, Liu JS, Lu SH, Guan Y, Li HY: Molecular and cellular mechanisms of neutral lipid accumulation in diatom following nitrogen deprivation *Biotechnol Biofuels* 6(1): 2013. PM23642220
14. Park CY, Wong AK, Greene CS, Rowland J, Guan Y, Bongo LA, Burdine RD, Troyanskaya OG: Functional Knowledge Transfer for High-accuracy Prediction of Under-studied Biological Processes *PLoS Comput. Biol.* 9(3): 2013. PM23516347
15. Guan Y, Dunham MJ, Troyanskaya OG, Caudy AA: Comparative gene expression between two yeast species *BMC Genomics* 14(1): 2013. PM23324262
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18. Zhu F, Guan Y: Predicting dynamic signaling network response under unseen perturbations *Bioinformatics* 30(19): 2772-2778, 2014. PM24919880
19. Shi L, Sierant MC, Gurdziel K, Zhu F, Cui S, Kolodziej KE, Strouboulis J, Guan Y, Tanabe O, Lim KC, Engel JD: Biased, Non-equivalent Gene-Proximal and -Distal Binding Motifs of Orphan Nuclear Receptor TR4 in Primary Human Erythroid Cells *PLoS Genet.* 10(5): 2014. PM24811540
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