

MISSION

Empower people to live a healthy and fulfilled life.

CURRENT POSITION

Assistant Professor, Genetics and Genomic Sciences 2018 October-Present
Faculty, Mount Sinai Center for Transformative Disease Modeling
Faculty, Icahn Institute for Data Science and Genomic Technology
Associate Member, Tisch Cancer Institute
Icahn School of Medicine at Mount Sinai, NY, USA

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Personal website: www.KuanLinHuang.com

Founder and Chief Unboxer, OpenBoxScience.Org 2020 May-Present
Open Box Science is a world-wide, open, and free platform for journal clubs presented by authors.

EDUCATION

Postdoctoral Research Fellow, Cancer Proteomics, Washington University in St. Louis, MO 2018 September
Advisor: Dr. Li Ding (Cancer proteomics)

Ph.D., Genetics and Genomics, Washington University in St. Louis, MO 2018 February
Dissertation: *Multi-omics Portraits of Cancer*
Advisor: Dr. Li Ding (Cancer genomics, 2014-2018)
Drs. Alison M. Goate and Carlos Cruchaga (Statistical genetics/Alzheimer's disease, 2013-2014)

B.A., Wesleyan University, Middletown, CT 2012 May
Honors thesis research in Molecular Biology & Biochemistry (Advisor: Dr. Scott G. Holmes)
Honors thesis exhibition in Studio Art (Advisor: Jeffrey Schiff) #only person in class to complete 2 *honors* dissertations.

PUBLICATIONS

[*Co-first authors. #Co-corresponding authors. %Consortium authorship.]

In press/review/revision/preprint servers (only first- or last-authors included):

1. Jaladanki SK#, Elmas A#, Malave GS, **Huang KL**. Genetic Dependency of Alzheimer's Disease-Associated Genes across Cells and Tissue Types. *In review*.
2. Moon C, Schilder BM, Raj T, **Huang KL**. Phenome- and Transcriptome-wide Associations of COVID-19 Genetic Risk Loci. *In review*.
3. Houlahan KE, Fulop DJ, Lopez G, Huang HH, Van Loo P, Boutros PC#, **Huang KL**#. Deletions Rate-Limit Breast and Ovarian Cancer Initiation. *In review*.
4. Qing T, Jun T, Lindblad KE, Lujambio A, Pusztai L#, **Huang KL**#. Diverse Immune Response of DNA Damage Repair-Deficient Tumors. *In review*.
5. Elmas A, Tharakan S, Jaladanki S, Liu T, **Huang KL**. Pan-cancer Proteogenomic Investigations Identify Post-Transcriptional Kinase Targets. *In review*.

6. Lee W, Wang Z, Saffern M, **Huang KL**. Genomic and Molecular Features Distinguish Young Adult Cancers and Reveal Treatment Options. *In review*.
7. T Jun, S Nirenberg, P Kovatch, **Huang KL**. Mortality and risk factors among US Black, Hispanic, and White patients with COVID-19. *medRxiv & in review*.
8. T Jun, S Nirenberg, P Kovatch, **Huang KL**. Sex-specificity of mortality risk factors among hospitalized COVID-19 patients in New York City: prospective cohort study. *medRxiv & in review*.
9. T Jun, T Qing, G Dong, M Signaevski, J Hopkins, G Frampton, L Albacker, ... **Huang KL**. Cancer-specific associations of driver genes with immunotherapy outcome. *bioRxiv & in review*.
10. **Huang KL**[#], Scott AD, Weerasinghe A, Liu R, Zhou DC, Wang LB, Sengupta S, Lai CW, Wu Y, Ruggles K, Payne SH, Raphael B, Fenyo D, Chen K, Mills G, Ding L[#]. Systematic discovery of spatially interacting phosphorylation sites and mutations in cancer. *In revision*.
11. Dong G, Wendl M, Zhang B, Ding L, **Huang KL**. AeQTL: eQTL analysis using region-based aggregation of rare variants. *In press*.

Published:

12. Roudko V, Bozkus CC, Orfanelli T, McClain CB, Carr C, O'Donnell T, Chakraborty L, Samstein R, **Huang KL**, Blank SV, Greenbaum B, Bhardwaj N. Shared Immunogenic Poly-Epitope Frameshift Mutations in Microsatellite Unstable Tumors. *Cell*. 2020.
13. Zhang Q, Sidorenko J, Couvy-Duchesne B, Marioni RE, Wright MJ, Goate AM, Marcora E, **Huang KL**, Porter T, Laws SM; Australian Imaging Biomarkers and Lifestyle (AIBL) Study, Sachdev PS, Mather KA, Armstrong NJ, Thalamuthu A, Brodaty H, Yengo L, Yang J, Wray NR, McRae AF, Visscher PM. Risk prediction of late-onset Alzheimer's disease implies an oligogenic architecture. *Nat Commun*. 2020.
14. Bailey MH, Meyerson WU, Dursi LJ, Wang LB, Dong G, Liang WW, Weerasinghe A, Li S, Kelso S; MC3 Working Group; PCAWG novel somatic mutation calling methods working group, Saksena G, Ellrott K, Wendl MC, Wheeler DA, Getz G, Simpson JT, Gerstein MB, Ding L; **PCAWG Consortium**[%]. Retrospective evaluation of whole exome and genome mutation calls in 746 cancer samples. *Nat Commun*. 2020.
15. Li CH, Prokopec SD, Sun RX, Yousif F, Schmitz N, Boutros PC; **PCAWG Consortium**[%]. Sex differences in oncogenic mutational processes. *Nat Commun*. 2020.
16. Molina-Sánchez P, Ruiz de Galarreta M, Yao MA, Lindblad KE, Bresnahan E, Bitterman E, Martin TC, Rubenstein T, Nie K, Golas J, Choudhary S, Bárcena-Varela M, Elmas A, Miguela V, Ding Y, Kan Z, Grinspan LT, **Huang KL**, Parsons RE, Shields DJ, Rollins RA, Lujambio A. Cooperation between distinct cancer driver genes underlies inter-tumor heterogeneity in hepatocellular carcinoma. *Gastroenterology*. 2020.
17. Oak N, Cherniack AD, Mashl RJ; TCGA Analysis Network, Hirsch FR, Ding L, Beroukhir R, Gümüř ZH, Plon SE, **Huang KL**. Ancestry-Specific Predisposing Germline Variants in Cancer. *Genome Medicine* 2020.
18. Batra P, **Huang KL**. A Genotype Concordance Assessment between Consumer Genetic Testing Services. *Annals of Human Genetics* 2020.
19. Carrot-Zhang J*, Chambwe N*, Damrauer JS*, Knijnenburg TA*, Robertson AG*, Yau C*, Zhou W*, Berger AC*, **Huang KL***, Newberg JY*, Mashl RJ, Romanel A, Sayaman RW, Demichelis F, Felau I, Frampton GM, Han S, Hoadley KA, Kemal A, Laird PW, Lazar AJ, Le X, Oak N, Shen H, Wong CK, Zenklusen JC, Ziv E; Cancer Genome Atlas Analysis Network, Cherniack AD, Beroukhir R. Comprehensive Analysis of Genetic Ancestry and Its Molecular Correlates in Cancer. *Cancer Cell* 2020.
20. **Huang KL**. Ten Simple Rules for landing on the right job after your PhD or postdoc. *PLoS Computational Biology* 2020.
21. **ICGC/TCGA Pan-Cancer Analysis of Whole Genomes Consortium**[%]. Pan-cancer analysis of whole genomes. *Nature* 2020.
22. **Huang KL**[#], Wu Y, McMichael JF, Scott AD, Cao S, Wendl MC, Johnson KJ, Ruggles K, Held J, Payne SH, Davies S, Ellis MJ, Fenyo D, Chen F, Townsend RR, Carr SA, Ding L[#]. Regulated phosphosignaling associated with breast cancer subtypes and druggability. *Molecular and Cellular Proteomics* 2019.
23. DeRossi C, Bambino K, Morrison J, Sakarin I, Villacorta-Martin C, Zhang C, Ellis JL, Fiel MI, Ybanez M, Lee YA, **Huang KL**, Yin C, Sakaguchi TF, Friedman SL, Villanueva A, Chu J. Mannose Phosphate Isomerase and Mannose Regulate Hepatic Stellate Cell Activation and Fibrosis in Zebrafish and Humans. *Hepatology* 2019.
24. Adamovich AI, Banerjee T, Wingo M, Duncan K, Ning J, Martins Rodrigues F, **Huang KL**, Lee C, Chen F, Ding L, Parvin JD. Functional analysis of BARD1 missense variants in homology-directed repair and damage sensitivity. *PLoS Genetics* 2019.
25. Oak N, Ghosh R, **Huang KL**, Wheeler DA, Ding L, Plon SE. Framework for microRNA variant annotation and prioritization using human population and disease datasets. *Human Mutation* 2019.
26. Scott AD, **Huang KL**, Weerasinghe A, Mashl RJ, Gao Q, Ding L. CharGer: Clinical Characterization of Germline Variants. *Bioinformatics* 2018.
27. Sengupta S*, Sun SQ*, **Huang KL**, Oh C, Bailey MH, Varghese R, Wyczalkowski MA, Ning J, Tripathi P, McMichael JF, Johnson KJ, Kandoth C, Welch J, Ma C, Wendl MC, Payne SH, Fenyo D, Townsend RR, Dipersio JF, Chen F, Ding L. Integrative Omics Analyses Broadens Treatment Targets in Human Cancer. *Genome Medicine* 2018.

28. **Huang KL**, Mashl RJ, Wu Y, Ritter DI, Wang J, Oh C, Paczkowska M, Reynolds S, Wyczalkowski MA, Oak N, Scott AD, Krassowski M, Cherniack AD, Houlahan KE, Jayasinghe R, Cao S, Kim YW, Koire A, McMichael JF, Huchtagowder V, Hahn A, McLellan MD, Al-Mulla F, Johnson KJ, TCGA Research Network, Boutros PC, Raphael B, Lazar AJ, Zhang W, Wendl MC, Govindan R, Jain S, Kulkarni S, Dipersio JF, Reiman J, Meric-Bernstam F, Chen K, Shmulevich I, Plon S, Chen F#, Ding L#. Pathogenic germline variants in 10,389 adult cancers. *Cell* 2018.
29. Ding L*, Bailey MH*, Porta-Pardo E*, Thorsson V, Colaprico A, Bertrand D, Gibbs DL, Weerasinghe A, **Huang KL**, Tokheim C, Cortés-Ciriano I, Jayasinghe R, Chen F, Yu L, Sun S, Olsen C, Kim J, Taylor AM, Cherniack AD, Akbani R, Suphavitai C, Nagarajan N, Stuart JM, Mills GB, Wyczalkowski MA, Vincent BG, Hutter CM, Zenklusen JC, Hoadley KA, Wendl MC, Shmulevich I, Lazar AJ, Wheeler DA, Getz G, TCGA Research Network. Perspective on Oncogenic Processes at the End of the Beginning of Cancer Genomics. *Cell* 2018.
30. Cao Y, Zhou W, Li L, Wang J, Gao Z, Jiang Y, Jiang X, Shan A, Bailey MH, **Huang KL**, Sun SQ, McLellan MD, Niu B, Wang W, Ding L, Ning G. Pan-cancer analysis of somatic mutations across 21 neuroendocrine tumor types. *Cell Research* 2018.
31. Mundt F, Rajput S, Li S, Ruggles KV, Mooradian AD, Mertins P, Gillette MA, Krug K, Guo Z, Hoog J, Erdmann-Gilmore P, Primeau T, Huang S, Edwards DP, Wang X, Wang X, Kawaler E, Mani DR, Clauser KR, Gao F, Luo J, Davies SR, Johnson GL, **Huang KL**, Yoon CJ, Ding L, Fenyö D, Ellis MJ, Townsend RR, Held JM, Carr SA, Ma CX. Mass spectrometry-based proteomics reveals potential roles of NEK9 and MAP2K4 in resistance to PI3K inhibitors in triple negative breast cancers. *Cancer Research* 2018.
32. **Huang KL**. Most popular public searches on gene names. *Nature* 2018. [Correspondence]
33. Wang X, Mooradian AD, Erdmann-Gilmore P, Zhang Q, Viner R, Davies SR, **Huang KL**, Bomgarden R, Van Tine BA, Shao J, Ding L, Li S, Ellis MJ, Rogers JC, Townsend RR, Fenyö D, Held JM. Breast tumors educate the proteome of stromal tissue in an individualized but coordinated manner. *Science Signalling* 2017.
34. **Huang KL***, Marcora E*, Pimenova AA, Di Narzo AF, Kapoor M, Jin SC, Harari O, Bertelsen S, Fairfax BP, Czajkowski J, Chouraki V, Grenier-Boley B, Bellenguez C, Deming Y, McKenzie A, Raj T, Renton AE, Budde J, Smith A, Fitzpatrick A, Bis JC, DeStefano A, Adams HHH, Ikram MA, van der Lee S, Del-Aguila JL, Fernandez MV, Ibanez L, International Genomics of Alzheimer's P, Alzheimer's Disease Neuroimaging I, Sims R, Escott-Price V, Mayeux R, Haines JL, Farrer LA, Pericak-Vance MA, Lambert JC, van Duijn C, Launer L, Seshadri S, Williams J, Amouyel P, Schellenberg GD, Zhang B, Borecki I, Kauwe JSK, Cruchaga C, Hao K, Goate AM. A common haplotype lowers PU.1 expression in myeloid cells and delays onset of Alzheimer's disease. *Nature Neuroscience* 2017.
35. Mashl RJ, Scott AD, **Huang KL**, Wyczalkowski MA, Yoon CJ, Niu B, DeNardo E, Yellapantula VD, Handsaker RE, Chen K, Koboldt DC, Ye K, Fenyö D, Raphael BJ, Wendl MC, Ding L. GenomeVIP: a cloud platform for genomic variant discovery and interpretation. *Genome Research* 2017.
36. **Huang KL***, Li S*, Mertins P*, Cao S, Gunawardena HP, Ruggles KV, Mani DR, Clauser KR, Tanioka M, Usary J, Kavuri SM, Xie L, Yoon C, Qiao JW, Wrobel J, Wyczalkowski MA, Erdmann-Gilmore P, Snider JE, Hoog J, Singh P, Niu B, Guo Z, Sun SQ, Sanati S, Kawaler E, Wang X, Scott A, Ye K, McLellan MD, Wendl MC, Malovannaya A, Held JM, Gillette MA, Fenyö D, Kinsinger CR, Mesri M, Rodriguez H, Davies SR, Perou CM, Ma C, Reid Townsend R, Chen X, Carr SA#, Ellis MJ#, Ding L#. Proteogenomic integration reveals therapeutic targets in breast cancer xenografts. *Nature Communications* 2017.
37. Deming Y, Li Z, Kapoor M, Harari O, Del-Aguila JL, Black K, Carrell D, Cai Y, Fernandez MV, Budde J, Ma S, Saef B, Howells B, **Huang KL**, Bertelsen S, Fagan AM, Holtzman DM, Morris JC, Kim S, Saykin AJ, De Jager PL, Albert M, Moghekar A, O'Brien R, Riemenschneider M, Petersen RC, Blennow K, Zetterberg H, Minthon L, Van Deerlin VM, Lee VM, Shaw LM, Trojanowski JQ, Schellenberg G, Haines JL, Mayeux R, Pericak-Vance MA, Farrer LA, Peskind ER, Li G, Di Narzo AF, Alzheimer's Disease Neuroimaging I, Alzheimer Disease Genetic C, Kauwe JS, Goate AM, Cruchaga C. Genome-wide association study identifies four novel loci associated with Alzheimer's endophenotypes and disease modifiers. *Acta Neuropathologica* 2017.
38. Deming Y, Black K, Carrell D, Cai Y, Del-Aguila JL, Fernandez MV, Budde J, Ma S, Saef B, Howells B, Bertelsen S, **Huang KL**, Sutphen CL, Tarawneh R, Fagan AM, Holtzman DM, Morris JC, Goate AM, Dougherty JD, Cruchaga C. Chitinase-3-like 1 protein (CHI3L1) locus influences cerebrospinal fluid levels of YKL-40. *BMC Neurology* 2016.
39. Mertins P*, Mani DR*, Ruggles KV*, Gillette MA*, Clauser KR, Wang P, Wang X, Qiao JW, Cao S, Petralia F, Kawaler E, Mundt F, Krug K, Tu Z, Lei JT, Gatz ML, Wilkerson M, Perou CM, Yellapantula V, **Huang KL**, Lin C, McLellan MD, Yan P, Davies SR, Townsend RR, Skates SJ, Wang J, Zhang B, Kinsinger CR, Mesri M, Rodriguez H, Ding L, Paulovich AG, Fenyö D, Ellis MJ#, Carr SA#. Proteogenomics connects somatic mutations to signalling in breast cancer. *Nature* 2016.
40. Ye K, Wang J, Jayasinghe R, Lameijer EW, McMichael JF, Ning J, McLellan MD, Xie M, Cao S, Yellapantula V, **Huang KL**, Scott A, Foltz S, Niu B, Johnson KJ, Moed M, Slagboom PE, Chen F, Wendl MC, Ding L. Systematic discovery of complex insertions and deletions in human cancers. *Nature Medicine* 2016.
41. Li J*, **Huang KL***, Zhang T, Li H, Zhao J, Wang H. Pan-cancer methylation and expression profiling of adenocarcinomas revealed epigenetic silencing in the WNT signaling pathway. *Neoplasia* 2016.
42. Lu C*, Xie M*, Wendl MC*, Wang J*, McLellan MD*, Leiserson MDM*, **Huang KL**, Wyczalkowski Ma, Jayasinghe R, Banerjee T, Ning J, Tripathi P, Zhang Q, Niu B, Ye K, Schmidt HK, Fulton RS, McMichael JF, Batra P, Kandoth C, Bharadwaj M, Koboldt DC, Miller Ca, Kanchi KL, Eldred JM, Larson DE, Welch JS, You M, Ozenberger Ba, Govindan R, Walter MJ, Ellis MJ, Mardis ER, Graubert Ta, Dipersio JF, Ley TJ, Wilson RK, Goodfellow PJ, Raphael BJ, Chen F, Johnson KJ, Parvin JD, Ding L. Patterns and functional implications of rare germline variants across 12 cancer types. *Nature Communications* 2015.

43. Ringel AE, Ryznar R, Picariello H, **Huang KL**, Lazarus AG, Holmes SG. Yeast Tdh3 (glyceraldehyde 3-phosphate dehydrogenase) is a Sir2-interacting factor that regulates transcriptional silencing and rDNA recombination. *PLoS Genetics* 2013.

RESEARCH FUNDING SUPPORT

Ongoing Support

R35 GM138113 (NIH NIGMS)

9/15/2020 - 7/1/2025

Integrative Approaches for Identifying Causal Gene-Cell Type Pairs of Complex Disease (Huang)

Role: PI

[Pending Support: 3 NIH R01s and 1 U01 as PI/M-PI pending study section/council review]

Completed Support

Google Cloud Pilot Grant (Google)

4/1/2020 - 10/1/2020

A Web-based Simulator for Pandemic Containment Strategies (Huang)

Role: PI

MSSM GGS Pilot Grant (Mount Sinai)

10/1/2019 - 10/1/2020

A Novel Epigenetic Mark in Alzheimer Disease and Aging (Gang)

Role: Co-I

INVITED TALKS

1. Hosted 4+ OpenBoxScience.Org open symposiums and presented on 2+ of them.
2. The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases, Ghent, Belgium (virtual), 2020. [Keynote]
3. NGS teleconference, Kaohsiung Medical University, Kaohsiung, Taiwan (virtual), 2020. [Keynote]
4. Academia Sinica, Institute of Statistical Science, Taipei, Taiwan, 2020.
5. National Yang-Ming University, Institute of Biomedical Informatics, Taipei, Taiwan, 2020.
6. National Tsing Hua University, Institute of Biomedical Engineering, Hsinchu, Taiwan, 2020.
7. National Yang-Ming University, School of Dentistry, Taipei, Taiwan, 2020.
8. Icahn School of Medicine at Mount Sinai, Department of Genetics and Genomic Sciences, New York, USA, 2019.
9. Wesleyan University, Department of Molecular Biology and Biochemistry, Middletown, USA, 2019.
10. Icahn School of Medicine at Mount Sinai, Center for Transformative Disease Modeling, New York, USA, 2018.
11. The Scripps Research Institute, Skaggs Institute for Molecular Biology, San Diego, USA, 2018.
12. UT Southwestern, Department of Bioinformatics, Dallas, USA, 2018.
13. Oregon Health and Science University, The Knight Cancer Institute, Portland, USA, 2018.
14. UCLA Institute for Quantitative and Computational Biosciences, Los Angeles, USA, 2018.
15. Novartis Institutes for Biomedical Research, Cambridge, USA, 2018.
16. Calico Life Sciences, South San Francisco, USA, 2017.
17. 23andMe, Mountain View, USA, 2017.
18. NCI CPTAC Steering Committee Meeting, Bethesda, USA, 2017.
19. Academia Sinica, IBMS Seminar, Taipei, Taiwan, 2017.
20. PanCanAtlas Face-to-face Meeting, Houston, USA, 2016.
21. Alzheimer's Association International Conference (AAIC), Toronto, Canada, 2016.
22. American Association for Cancer Research Annual Meeting (AACR), New Orleans, USA, 2016.
23. NCI CPTAC Meeting, Bethesda, USA, 2015.

PEER-REVIEW SERVICE [*Multiple times]

Grant Proposals:

1. 2020 Arizona Alzheimer's Disease Core Center Grant

Research Manuscripts:

1. Nature Communications*
2. Genome Medicine
3. Molecular and Cellular Proteomics
4. Clinical Proteomics
5. BMC Bioinformatics
6. BMC Genomics

TRAINEES (name, training period, research outcome, first job and career outcome)

1. **Abdulkadir Elmas, PhD**, postdoctoral fellow, 2019/2- present
2. **Tomi Jun, MD**, hem/onc fellow, 2019/4- present
3. **Zishan Wang, PhD**, postdoctoral fellow, 2019/9- present
4. **William Lee**, MS student, 2019/9-2020/10. From zero-programming experience to first-author manuscript paper in review. Graduated within one year in the 1.5-year program and employed as a bioinformatician.

My lab also trains ~5 medical students per year between their M1 and M2 years, enabling them to learn about precision medicine and be able to leverage a more data-driven approach in their future practices.

Individuals not “officially” in the lab but directly mentored for projects

1. **Tao Qing, PhD**, postdoctoral fellow with Dr. Lajos Pusztai, 2019/6- present: first-author manuscript in review.
2. **Katie Houlahan, PhD**, PhD student with Dr. Paul Boutros, 2018/12-present: first-author manuscript in review.
3. **Guanlan Dong**, undergraduate student, 2018/7- present: first-author manuscript accepted, PhD student in Harvard’s BIG PhD program.
4. **Prag Batra**, undergraduate/MD student, 2018/7-2020/6: first-author manuscript published, MD student at NYU.
5. **Ninad Oak, PhD**, PhD student with Dr. Sharon Plon, 2018/8-2020/6: first-author manuscript published, Scientist at St. Jude’s Children’s hospital.

PhD Dissertation Committee

Aanay Shah (Clinical and Translational Research)/**Julia Zhao** (Genetics and Genomic Sciences)

TEACHING AND EDUCATIONAL SERVICE

- | | |
|--|--------------|
| 1. Advisory Board Member, Office of Faculty Development , Icahn School of Medicine at Mount Sinai | 2020-Present |
| 2. Member, Postdoc Advisory Committee , Icahn School of Medicine at Mount Sinai | 2020-Present |
| 3. Teaching Assistant and Guest Lecturer , Washington University in St. Louis & Wesleyan University | 2011-2018 |
| 4. Community Health Project Founder and Leader , Matibabu Foundation, Kenya | 2013 |
| 5. English Instructor for compulsory substitute military service, Zhuwei Elementary School, Taiwan | 2012-2013 |

AWARDS

- | | |
|--|------------|
| 1. NIGMS Maximizing Investigators' Research Award (MIRA) for ESI | 2020-2025 |
| 2. Alzheimer’s Association International Conference (AAIC) Travel Fellowship | 2016 |
| 3. First Place Winner, Skandalaris Healthcare Hackathon | 2015 |
| 4. Taiwanese Ministry of Education Ph.D. Scholarship | 2014-2015 |
| 5. Honors (Studio Art) & High Honors (Molecular Biology) Dissertations, Wesleyan University | 2012 |
| 6. Scott Biomedical Prize, Wesleyan University | 2012 |
| 7. Howard Hughes Undergraduate Research Scholarship (awarded two terms) | 2010, 2011 |
| 8. Freeman Asian Full-Ride Scholarship for Wesleyan University, CT | 2008-2012 |