

Marcus Alexander, PhD, MPhil

Human Nature Lab | Yale Institute for Network Science | Yale University

contact

17 Hillhouse Ave, 313
New Haven, CT 06511

(475) 355 - 3871

marcus.alexander@yale.edu
about.me/mdicer
Linkedin.com/in/mdicer
twitter: @mqdicer

education

Postdoc Stanford
PhD Harvard
MPhil Oxford
BA Yale

summary

I work as a sociobiologist at Yale on genomics of social networks, evolution of human cooperation and large-scale public health interventions to improve and extend life. My postdoctoral research at Stanford used next-generation sequencing (NGS) and synthetic RNA to reprogram human adult cells into the induced pluripotent stem cells. I worked for Amgen, Genentech and Doximity, and co-founded a tech start-up in the Silicon Valley.

EXPERIENCE

research

- since 2016 **Yale University** New Haven, CT
Research in Human Nature Lab directed by Nicholas Christakis on genomics of social networks, network experiments on artificial societies, and RCTs measuring impact of public health interventions in the developing world.
- 2009–2012 **Stanford University School of Medicine** Stanford, CA
Postdoctoral research in the Departments of Biochemistry and Genetics, working on biochemistry of RNA, next generation sequencing and using modified RNA to engineer induced pluripotent stem cells.
- 2011–2012 **Howard Hughes Medical Institutes** Stanford, CA
HHMI MD Research Fellowship, working on epigenetics of brain tumors stem cells, focusing on pediatric Glioblastoma Multiforme at the Institute from Stem Cells and Regenerative Medicine and the Department of Neurosurgery at Stanford.
- sum 2010 **Memorial Sloan-Kettering Cancer Research Center** New York, New York
MD Research Fellowship in the Oncology and Human Pathology, working on the function of microRNA in brain tumors.
- 2008–2009 **Beth Israel Deaconess Medical Center and HMS** Boston, MA
Graduate Clinical Research Fellow in Hand Research Group, Department of Orthopedic Surgery, BIDMC and HMS
- 2005–2009 **Harvard Medical School** Boston, MA
Graduate Research Assistant in the Christakis Group at the Department of Health Care Policy and the Department of Sociology.
- 2004–2005 **Harvard University** Cambridge, MA
Graduate Research Assistant in the Institute for Quantitative Social Science, working on new statistical models using R/S-Plus, SAS, Matlab.
- 1998–2001 **Yale University** New Haven, CT
Research Assistant in the PVA/EPVA Center for Neuroscience and Regeneration and the Department of Neurology.

industry

- 2011–2015 **proVITAL, Inc** Palo Alto, CA
Co-founder and CEO of a tech company in mobile medicine.
- Apr 2012 **Doximity, Inc.** San Mateo, CA
Managed a new product on the largest online physician network.
- 2009–2010 **Genentech, a member of the Roche Group** South San Francisco, CA
Study Design, SAP, QoL, cost-effectiveness, budget impact.
- 2005–2007 **Amgen, Inc.** Thousand Oaks, CA
Economics of chronic kidney disease, cancer and osteoporosis.

teaching

awards

**Howard Hughes Medical
Institutes MD Fellow**

**Memorial Sloan-Kettering
Cancer Center MD Fellow**

**Royal Society of
Econometrics**
World Congress Grant

Harvard Kennedy School
Leadership Fellow

**NSF Inequality and Public
Policy**
Research Fellowship

Sage Foundation
Research Award

Oxford
Clarendon Scholarship

Wolfson College
Junior Research Fellowship

Yale and MGU
Fox International Fellowship

Yale
Frank Patterson Prize

Trumbull College
Class of 1986 Fellowship

service

Volunteer, Yale Haven Free
Clinic, Fair Haven, CT,
summer 2016;

President, LGBT Meds,
Stanford University, 2010;

Coordinator, Orthopedic
Specialty Clinic, Free
Medical Clinic, East Palo
Alto, CA, 2010;

LGBT College Advisor and
Concentration Advisor,
Lowell House, Harvard
University, 2007-2008

- Co-designed and taught a new course HIV:Research,Treatment and Public Policy, Stanford, Spring, 2011
- Teaching Assistant, Comparative Politics and International Relations, Stanford University, Fall, 2010
- Instructor, MCAT Prep Course for Examcrakers at Stanford, Spring, 2010
- Teaching Assistant, BIOL 45s: Biochemistry, Stanford University, Summer, 2010
- Senior Essay Advisor, Government Department, Harvard University, 2008-2009
- Instructor, GOV 91: Junior Seminar: The Politics of the Middle East, Harvard University, Spring 2009
- Teaching Assistant, Sociology of Health in America, Harvard University, Fall 2009
- Teaching Assistant, Gov 20: Foundations of Comparative Politics, Department of Government, Harvard University, Cambridge, MA, Spring 2007
- Teaching Assistant, GOV 98a: Sophomore Tutorial: Political Theory and American Politics, Harvard, 2007.
- Teaching Assistant, GOV 98b: Sophomore Tutorial: Comparative Politics and IR, Harvard, 2006.

publications and presentations

1. Characterizing the health of rural elders in social networks: Evidence from Honduras, Alexander M and N Christakis, to be presented at the American Public Health Association Annual Meeting, Atlanta, November, 2017.
2. Genomics of Social Networks, Yale Institute for Network Science Summer Seminar Presentation, Yale, 2017.
3. Neurobiology of Addiction, Miriam House Foundation Presentation, Los Angeles, CA, 2016.
4. Epigenetic Reprogramming of Human Adult Cells into Induced Pluripotent Stem Cells (iPSCs), Center for Human Genomics and Personalized Medicine Presentation, Stanford, 2012.
5. Epigenetics of Brain Tumor Stem Cells, Review, Institute for Stem Cell Biology, Stanford, CA,2012.
6. Histone Modifications in Brain Tumor Stem Cells, Howard Hughes Medical Institutes Presentation, Washington, D.C., 2012.
7. Micro-RNA Profiling of Glioblastoma Multiforme: Prognosis after Brain Tumor Surgery, Memorial Sloan-Kettering Cancer Center Presentation, 2012.
8. Context Modularity of Human Altruism, Alexander M, Christia F. Science. 334(6061):1392-4. December 9, 2009.
9. Quantile Regression for Time-Series-Cross-Section Data, Alexander, M., M.Harding, and C. Lamarche. International Journal of Statistics and Management System 6:47-72. 2011.
10. Institutionalizing Cooperation: Public Goods Experiences in the Aftermath of Civil War, Alexander M and Christia F. WCFIA Working Paper Series. 2009.
11. The Human Costs of Economic Crises, Alexander,M., M.Harding, and C.Lamarche, 2009.SIEPR Discussion Paper 08-029, Stanford University Applied Economics. 2009.
12. Effects of workers' compensation on the diagnosis and surgical treatment of patients with hand and wrist disorders, Day CS, Alexander M, Lal S, Horton H, Ahn CS, Pauyo T, Rozental TD. J Bone Joint Surg Am. 6;92(13):2294-9. October 2010.
13. Chronic kidney disease and US health care source utilization in a nationally representative sample, Alexander M, Bradbury BD, Kewalramani R, Barlev A, Mohanty SA, Globe D. Am J Nephrol ;29(5):473-82. 2009.
14. Bias and asymmetric loss in expert forecasts: a study of physician prognostic behavior with respect to patient survival, Alexander M. and Christakis, NA., J Health Econ.;27(4):1095-108. July 2008.
15. Validation of an objective device for assessing circumductive wrist motion, Franko OI,Lal S,Pauyo T,Alexander M, Zurakowski D, Day C. J Hand Surg Am.;33(8):1293-300. October 2008
16. Association of anemia correction with health related quality of life in patients not on dialysis, Alexander M, Kewalramani R, Agodoa I. Globe D. Curr Med Res Opin.;23(12):2997-3008. December 2007.
17. Is poverty to blame for civil war? New evidence from nonlinear fixed effects estimation, Alexander M and Harding M. Econometric Society World Congress. 2006.
18. Self-Regulation and the Certification of the European Information Economy: The Case of E-Health Care Information Provision, Alexander M and Harding M. Discussion Paper Series 154, Department of Economics, University of Oxford. April 2007.
19. Determinants of Social Capital: New Evidence on Religion, Diversity and Structural Change, Alexander M. British Journal of Political Science 37:02: 368-377. April 2007.
20. The Internet and Democratization: The Development of Russian Internet Policy, Alexander M. Demokrati-zatsiya, 607-627. 2004.