George G. Vega Yon

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Education

Ph.D. in Biostatistics (with concentration in Stat. Comp.) University of Southern California (2017-2019, expected)

M.Sc. in Social Sciences (Economics) California Institute of Technology (2016)

Master in Economics and Public Policy, Adolfo Ibáñez University (2011)

BS. in Social Sciences and **BS. in Business Administration**, Adolfo Ibáñez University (2010)

Professional Experience

University of Southern California, 2015—present Department of Preventive Medicine *Research Programmer*. Development and Implementation of statistical methods using R, funded by National Cancer Institute, NIH, and the US Department of Defense.

Chilean Pension Supervisor, August 2011— August 2014 Research Division *Analyst*. Statistical and econometric analysis on the Chilean unemployment insurance, statistical software development, serving as a bridge between the IT and Research divisions.

Nodos Chile Social Network Analysis Ltda., January 2012—January 2014 *Partner*. Founding partner of one of the first applied SNA Consultancy Entrepreneurship in Chile.

Adolfo Ibáñez University, January 2011—June 2012. School of Government *Adjunct Professor*. Taught Introductory courses of Economics, Microeconomics and Statistical computing with Stata.

Chilean Ministry of Social Planning, March 2011—December 201. Social Programs Monitoring *Analyst*. Survey and Analysis of the Government social programs supply and supporting the Monitoring Division with the Open-Data Initiative.

Software

R, C++, LaTeX, SQL, XML, regex, Stata+Mata, VBA, Gephi, Pajek, Mathematica, MS Suit, git, unix

Research

Selected Publications and Work in progress

Sensing Eating Mimicry Among Family Members. Accepted at *Transitional Behavioral Medicine*. With Brooke Bell, Kayla de la Haye, and others.

Network Influences on policy implementation: Evidence from a global health treaty. In *Social Science and Medicine*, 222. (2019) with Thomas W. Valente, Stephanie Pitts, and Heather Wipfli.

On the Automatic Annotation of Gene Functions Using Observational Data and Phylogenetic Trees. Work in Progress. With Duncan C. Thomas, Paul Marjoram, and others.

Exponential Random Graph models for Little Networks, Work In Proggress. With de la Haye, Kayla.

Visualizing Large Annotated Graphs as Heatmaps, Work In Proggress. With Valente, TW.

The impact of television rating over twitter activity: Evidence for Chile based on the Teleton 2012. In *Cuadernos.info*, 33. doi:10.7764/cdi.33.533 (2013) With Fábrega, J.

Parallel: Stata module for parallel computing. In review at *Stata Journal*. With Quistorff, B.

The impact of increasing retirement payroll-tax: Pensions, Salaries and Employment. In *Centro de Políticas Laborales, Adolfo Ibáñez University* (2013). With Repetto, A.

Exploratory Analysis of Television Audience in Twitter. In *Informe Anatel 2013, chapter 5, National Television Asociation (ANATEL)* (2013). With Fábrega, J., and Paredes, P.

Selected Software

Vega Yon, G. , Dyal, S., Hayes, T., Valente, T. (2016) "netdiffuseR: Network Analysis for Diffusion of Innovations". In *The Comprehensive R Archive Network*.

Rau, T., **Vega Yon, G.** & Espinoza, D. "blopmatching: Implementing a New Matching Estimator based on a Bi-Level Optimization Problem", (2014). Developed for Diaz, Rau and Rivera (RESTAT, 2015)

Vega Yon, G., & Muñoz, E. (2013). ABCoptim: An Implementation of the Artificial Bee Colony (ABC) Optimization algorithm. In *The Comprehensive R Archive Network*.

Vega Yon, G., Fábrega, J., & Kunst, J. (2012). rgexf: An R package to build gexf graph files. In *The Comprehensive R Archive Network*.

Honors and Professional Achievements

Book reviewer: "Microeconometrics and Matlab: An Introduction", by Adams, Clarke and Quinn, Oxford University Press, 2015. "Mastering Gephi Network Visualization", by Ken Cherven, Packt Publishing, 2015. "Network Graph Analysis and Visualization with Gephi", by Ken Cherven, Packt Publishing, 2013.

Awards Fellowship, California Institute of Technology, for Ph.D. Programme in Social Sciences, 2014. Scholarship, Adolfo Ibáñes University, for Undergraduate and Graduate Studies (2006).

Manuscript reviewer The Official Journal of The Society for Computational Economics, The R Journal, Social Networks, SUNBELT Conference (2016), International Conference on Computational Social Science (2019).

Misc Founder of the R Users Group in Chile (2013), co-organizer of the East LA R User Group (LAERUG).