

Lucas da Silva Almeida

857-756-3608 | almeida.lu@northeastern.edu | 185 St. Botolph St Apt 3 | Boston, MA

SUMMARY

Researcher and data scientist focusing on human and virtual networks. Deploys hybrid methods to bridge the gap between qualitative problems and data-driven solutions. Investigates dark networks, misinformation, and psychological operations, seeking strategies to better target and monitor criminal and terrorist groups, as well as the topological markers of leadership failures.

EDUCATION

Ph.D., Network Science, Northeastern University	Expected - 2021
M.S., Complex Systems Modeling, Univ. of São Paulo Thesis: <i>“Dark networks and corruption: uncovering the offshore industry”</i>	2017
B.A. - Political Science, Univ. of Brasília Thesis: <i>“Emergent Social Phenomena”</i>	2014

EXPERIENCE

GoodLight Inc <i>Data Network Specialist</i>	2019
<ul style="list-style-type: none">Created a proprietary model for predicting hate speech contagion on social networks.Performed data collection for model calibration and deployment on AWS	

Northeastern University <i>Research Assistant</i>	2016 - Current
<ul style="list-style-type: none">Developing and analyzing self-exciting and spatial contagion models for mass shooting risk.Performed collection to assemble a database of 1.6 million unique and validated Twitter users as preliminary research for a study of political “fake news”.Wrote literature reviews and analysis briefs on “fake news” and social media for research team.Consulted with senior researchers on projects, including executive education initiatives on resilience and complex systems.Created visualizations in Gephi tracing domestic migration of minorities using historical data.Authored sub-sections of a National Academy of Sciences brief on misinformation and communication modes.	

<i>Teaching Assistant</i>	
<ul style="list-style-type: none">Taught discussion sections for three classes on statistics and regression for graduate students.Designed assignments and rubrics for the pilot distance learning course on statistical methods.	

Brazilian National Congress <i>Public Policy Analyst</i>	2011 - 2015
<ul style="list-style-type: none">Wrote 12+ major speeches for a party vice-leader delivered during House plenary sessions.Coordinated <i>Transbaixo</i> project providing medical and social aid for 10.000 low income citizens.Assisted anti-corruption hearings on “<i>Mining and Energy</i>” and “<i>Transportation</i>” committees.	

POSTERS & PRESENTATIONS

- **Network Science Conference - 2019- Burlington, Vermont** , *Shadow Capital: Emerging Patterns of Money Laundering and Tax Evasion* , Poster
- **International Conference on Complex Systems - 2018 - Cambridge, Massachusetts** , *Shadow Capital: Emerging Patterns of Money Laundering and Tax Evasion* , Poster
- **International Conference on Computational Social Science - 2017- Koln, Germany**, *The Spread of Fake News on Twitter by Voters During the 2016 U.S. General Election*. Co Author with Kenneth Joseph, Nir Grinberg, Lisa Friedland, William Hobbs, Carolina Mattsson, Stefan McCabe, and David Lazer
- **Conference on Complex Systems - 2015- Tempe, Arizona**. *Building Psychohistory: Harnessing Complexity Theory for Political Development*
- **American Political Science Association General Meeting - 2015- San Francisco, California**. *Roundtable on Complexity and Public Policy*:
- **Computational Social Science Summit - 2015- Evanston , Illinois**. *E-Fixing Government: Using data to solve Machiavellian problems*
- **International Symposium AgroEnviron - 2014- Goiania, Goiás**. *Plenary Talk: Emerging Platforms for Innovation in Agro-Ecosystems: The Case of EMBRAPA in Africa*.
- **International Political Science Association Congress - 2014- Montreal, Quebec**. *Money Left on the Table: An Institutional Analysis of Developing Brazil*
- **World Social Science Summit - 2013- Montreal, Quebec**. *The Horizons for Regulation of Emergent Social Phenomena :An Analysis of the Evolutionary Trends in the Government-Society Interface*

SERVICE

- Reviewer - Nature Communications - May 2020
- Editorial Board. - Revista Gestão de Políticas Publicas, University of São Paulo - June 2016

AWARDS AND FELLOWSHIPS

- Northeastern University , LEADER's Fellow, Inaugural cohort
- Traveling Scholar, Conference on Complex Systems - Santa Fe Institute/ASU (2015)
- Travel Fellowship , Computational Social Science Conference - Kellogg School of Management/ Facebook/Alfred P. Sloan Foundation.
- Brazilian National Council of Scientific and Technological Development (CNPq) Research Grant (2015-2017)

TECHNICAL SKILLS

Networks: *Data collection, Spreading Processes, Exponential Random Graphs , Epidemic Models*

Programming: *Python, R, SQL , Matplotlib , AWS*

Quantitative: *Regression, ANOVA, Bayesian inference*

Qualitative: *Survey Design, Agent-Based Models, Participant Observation*

APPENDIX - DETAILED ASSIGNMENTS

Lucas da Silva Almeida - PhD Student - NETSI - Graduate Stipend Assignments				
Year	Semester	Activity	Placement	Attributions
2016	Fall	NULab Fellow	College of Social Science	<ul style="list-style-type: none"> Interdisciplinary literature review scientific outreach event organization.
	Spring			
2017	Summer	Research Assistant	COMM Lab - Network Science Institute	<ul style="list-style-type: none"> Research on social networks Composing literature reviews Data visualization
	Fall			
2018	Spring	Research and Teaching Assistant	College of Social Science	<ul style="list-style-type: none"> Class Assigned: Introduction to Computational Statistics -Graduate Level - PPUA3101 Data gathering and analysis for executive education initiative targeting social resilience.
	Summer			
2019	Fall	Teaching Assistant	School of Criminology and Criminal Justice.	<ul style="list-style-type: none"> Class Assigned: Statistical Analysis - Graduate Level - INSH 6500
	Spring			
2019	Summer	LEADERS Fellow	PhD Network / Goodlight Inc.	<ul style="list-style-type: none"> Partnered research of risk assessment algorithms applied to social networks.
	Fall			
2020	Spring	Teaching Assistant	School of Criminology and Criminal Justice.	<ul style="list-style-type: none"> Class Assigned: Love and Hate -Undergraduate Level -PSYC 2101
	Summer	Research Assistant	COVID Testing Task Force Lazer Lab - Network Science Institute	<ul style="list-style-type: none"> Gathering information on procurement and testing strategies used by state and local governments. Data analysis of the Ambassadors project on Volunteer science.