# Gizem Korkmaz (CV, March 2017)

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| Biocomplexity Institute of Virginia Tech  Social and Decision Analytics Lab (SDAL)  National Capital Region (NCR)  900 N Glebe Rd, Arlington VA 22203 | Office 3010  *Phone:* +1 571-858-3113; *Email*: gkorkmaz@vt.edu |  |

# Clearance Information

Common Access Card (CAC), Affiliation: Contractor; Agency/Department: US Army; Exp.: Nov. 2017

# Professional Preparation

Ph.D., Economics, European University Institute (EUI), Florence - Italy Dec. 2012

Thesis: “Network Structure Matters: Applications to R&D Collaboration,

Collusion, and Online Communication Networks”

Advisor: Prof. Fernando Vega-Redondo

M.A., Economics, Boğaziçi University (BU), Istanbul - Turkey Mar. 2009

Thesis: “Explorations on the Accountability of Independent Regulatory Agencies”

Advisor: Prof. E. Unal Zenginobuz

M.Sc., Economics, European University Institute (EUI), Florence - Italy Jun. 2008

B.A. with Honors, Economics, Boğaziçi University, Istanbul - Turkey Jun. 2005

# Positions & Employment

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| * Research Assistant Professor, Social and Decision Analytics Laboratory,   Biocomplexity Institute of Virginia Tech | Aug. 2014 – current |
| * Adjunct Faculty, Department of Economics, Virginia Tech | Aug. 2014 – current |
| * Postdoctoral Associate, SDAL, Biocomplexity Institute of Virginia Tech | Feb. 2016 – current |
| * Postdoctoral Associate, Biocomplexity Institute of Virginia Tech   Network Dynamics and Simulation Science Laboratory (NDSSL) | Jan. 2013 – Feb. 2014 |
| * Research Associate, NDSSL, Biocomplexity Institute of Virginia Tech | Oct. 2012 – Jan. 2013 |
| * Visiting Scholar, NDSSL, Biocomplexity Institute of Virginia Tech | Oct. 2011 – Apr. 2012 |
| * Graduate Research Assistant, Department of Social and Political Science, European University Institute (EUI) | Sep. 2008 – Jun. 2009 |
| * Graduate Teaching Assistant, Department of Economics, EUI | Sep. 2008 – May 2009 |
| * Graduate Research and Teaching Assistant,   Department of Economics, Boğaziçi University (BU) | Sep. 2005 – Aug. 2007 |
| * Undergraduate Teaching Assistant, Department of Economics, BU | Sep. 2003 – May 2005 |

# Honors & Awards

* Outstanding New Faculty Award, Virginia Tech National Capital Region (VT NCR) Faculty Association, Dec. 2016.
* Contributing Faculty, “Early Model Based Event Recognition using Surrogates (EMBERS) Software” won Inventors of the Month, The Office of the Vice President for Research and Innovation, Virginia Tech, Nov. 2016.
* Contributing Researcher and Country Team Leader for Turkey, “*EU Profiler: The First Europe-wide Voting Advice Application for 2009 European Parliamentary Elections*” won World e-Democracy Forum Award, European University Institute, Oct. 2009.

# Research and Teaching Interests

Social and Economic Networks, Game Theory, Collective Action, Social Contagion, Social Media, Health IT, Applied Microeconomic Theory, Industrial Organization, R&D Economics

# Teaching & Mentorship

Virginia Tech Data Science for the Public Good Student Summer Program Co-Lead & Mentorship of Undergraduate and Graduate Students (2016 - current):

* **Co-Instructor: Summer I-II**  
  UH 4504: Honors Discovery and Innovation Studio (3 credits)  
  UH 4994: Honors Undergraduate Research (3 credits)

The Biocomplexity Research Experience for Undergraduates Mentorship (2016 - current):

* Madison Arnsbarger – Department of Economics, Virginia Tech
* John Higgins, Alex Cagliano, Romcholo Macatula – Computational Modeling and Data Analytics

Social and Decision Analytics Laboratory Postdoc Mentorship (2014 - current):

* Katie Zimmer (Psychology), Bianica Pires (Computational Social Science), Emily molfino (Political Science), Josh Goldstein (Statistics)

Short course, Game Theory and Applications in Network Science, NDSSL (Spring 2013)

Graduate Teaching Assistant,

- EUI, Ph.D. Level: Complex Social Networks (Spring 2009), Microeconomics I (Fall 2008)

- Boğaziçi University (Sep. 2005 – Aug. 2007): Microeconomics I-II, Game Theory, Contract Theory,

Public Economics I-II, Development Economics

Undergraduate Teaching Assistant,

- Boğaziçi University: Game Theory (Spring 2005), Mathematics for Economics (Fall 2003)

# Selected Peer-Reviewed Research Papers

Keller, S.; **G. Korkmaz**; M. Orr; A. Schroeder; and S. Shipp. (2017). “*The Evolution of Data Quality: Understanding the Transdisciplinary Origins of Data Quality Concepts and Approaches*.” *Annual Review of Applied Statistics* 2017. 4:5.1-5.24.

Molfino, E. **G. Korkmaz**; A. Schroeder; S. Keller; S. Shipp; Weinberg, D. H. (2016). “Can Administrative Housing Data Replace Survey Data?” *(in print) Cityscape*.

**Korkmaz, G.;** C. J. Kuhlman; and F. Vega-Redondo. (2016). “Can Social Contagion Spread Without Key Players?” In *Proceedings of the 2016 IEEE International Conference on Behavioral, Economic and Socio-cultural Computing (BESC’ 16)*, Durham, NC, USA, 2016, pp. 1-6.

**Korkmaz, G.**; J. Cadena; C. Kuhlman; A. Marathe; A.Vullikanti; and N. Ramakrishnan. (2016). “Multi-Source Models for Civil-Unrest Forecasting.” *Social Network Analysis and Mining. 6:50.*

**Korkmaz, G.**, C. J. Kuhlman, S. S. Ravi, and F. Vega-Redondo. (2016). “Approximate Contagion Model of Common Knowledge on Facebook." In *Proceedings of the 27th ACM Conference on Hypertext and Social Media (HT' 16).* ACM, New York, NY, USA, 231-236.

Ziemer, K. and **G. Korkmaz**. (2016). “Human vs. Automated Text Analysis: Estimating Positive and Negative Mood.” In *Proceedings of the 27th ACM Conference on Hypertext and Social Media (HT' 16).* ACM, New York, NY, USA, 309-314.

**Korkmaz, G.**; J. Cadena; C. Kuhlman; A. Marathe; A.Vullikanti; N. Ramakrishnan. (2015). “Combining Heterogeneous Online Data for Civil-Unrest Forecasting.” In *Proceedings of the 2015 IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM)*.

Cadena, J.; **G. Korkmaz**; C. Kuhlman; A. Marathe; N. Ramakrishnan; and A. Vullikanti. (2015). "Forecasting Social Unrest Using Activity Cascades." *PLoS ONE* 10(6): e0128879.

Pires, B., **G. Korkmaz**, K. Ensor et al. (2015). "Towards an *in silico*Experimental Platform for Air Quality: Houston, TX as a Case Study." Computational Social Science Society of the Americas Conference. Santa Fe. New Mexico; 2015.

Abdelhamid, S.; C. J. Kuhlman; **G. Korkmaz**; M. Marathe; SS. Ravi. (2015). “EDISON: A Web Application for Computational Health Informatics at Scale.” In *Proceedings of the 6th ACM Conference on Bioinformatics, Computational Biology and Health Informatics, pp. 413-422.*

**Korkmaz, G.**; C. J. Kuhlman; A. Marathe; M. V. Marathe; and F. Vega-Redondo. (2014). “Collective Action through Common Knowledge Using a Facebook Model.” In *Proceedings of the 2014 ACM International Conference on Autonomous Agents and Multi-agent Systems, pp. 253-260.*

Ramakrishnan, N.; P. Butler; S. Muthiah; N. Self; R. Khandpur; P. Saraf; W. Wang; J. Cadena; A. Vullikanti; **G. Korkmaz**, et al. (2014). “’Beating the News’ with EMBERS: Forecasting Civil Unrest using Open Source Indicators.” In *Proceedings of the 20th ACM SIGKDD Conference on Knowledge Discovery and Data Mining, New York, 2014.*

Cadena, J.; Y. Keneshloo; **G. Korkmaz**; and N. Ramakrishnan. (2014). “Detecting and Forecasting Domestic Political Crises: A Graph-based Approach.” In *Proceedings of the 2014 ACM Conference on Web Science, Bloomington, 2014*.

# Papers Submitted for Publication and in Preparation

Tyner, S.; **G. Korkmaz**; J. Goldstein; and V. Lancaster. (2017). “Predicting Residential Smoke Alarm Need in Arlington.” *Submitted to American Journal of Public Health.*

**Korkmaz, G.;** C. J. Kuhlman; and F. Vega-Redondo. (2017). “Can Social Contagion Spread Without Key Players?” (invited paper) World Wide Web: Internet and Web Information Systems.

Goode, B.; **G. Korkmaz**; M. Roan; and N. Ramakrishnan. (2016). “A Characteristic Phase Transition Model of Protest Durations.” *Revision.*

Weinberg, D. H.; S. Keller; **G. Korkmaz**; E. Molfino; S. Shipp. (2016). “Estimating Hedonic Indexes of Housing Value Using Non-Survey Data.” *Submitted to Journal of Housing Economics.*

Pires, B.; **G. Korkmaz**; K. Ensor; D. Higdon; S. Keller; B. Lewis; and A. Schroeder. (2016). ”Towards an *in silico* Experimental Platform for Air Quality: Houston, TX as a Case Study.” *Submitted to Journal of Exposure Science and Environmental Epidemiology (JESEE).*

**Korkmaz, G.**, C. J. Kuhlman, and F. Vega-Redondo. “The Effect of Homophily on Common Knowledge and Coordination on Facebook.” *Submitted to Economics and Computation 2017*.

**Korkmaz, G.**; K. Ziemer; B. Pires; A. Schroeder; C. Kuhlman; B. Lewis; J.P. ”Patient-Sharing Networks of Military Hospitals.” *(in preparation).*

Rupinder, P; C. Kuhlman; **G. Korkmaz**; D. Higdon; J. Cadena; A. Marathe; A. Vullikanti; and N. Ramakrishnan. “Spread of Social Unrest Over a Multi-Networked Population.” *(in preparation).*

**Korkmaz, G**.; C. Kuhlman; K Lakkaraju; and F. Vega-Redondo. “Common Knowledge and Collective Action in Online Social Network Experiments.” *(in preparation).*

**Korkmaz, G.** “R&D Collaboration in Collusive Networks.” *(in preparation).*

**Korkmaz, G.** “Congestion in R&D Collaboration Networks with Degree Externalities.” *(in preparation).*

# Research Support

PI and Co-PI

* PI: **Korkmaz, G.** (pending). “*The Dynamics of Common Knowledge on Social Networks: An Experimental Approach.*”

Source of Support: United States Department of Defense (DoD) - Minerva Research Initiative.

Total Amount Requested: $2,099,632 (Gizem Korkmaz Portion: $1,056,204)

Total Award Period Covered: 1/1/2017-12/31/2019

Effort: 4.8 months cy

* PI: Keller, S; Co-PI: **Korkmaz, G.**, et al. (pending). “*The Social Component of the Human Dimension: Leveraging Existing Department of Defense (DoD) Data Towards Optimized Individual and Team Performance*.”

Source of Support: Army Research Institute (ARI)

Total Amount Requested: $3,027,401

Total Award Period Covered: 10/1/2016-9/30/2021

Effort: 2.4 months cy

* PI: Ramakrishnan, Narendran. Co-PI: **Korkmaz, G.,** et al. (Oct. 2016 – Sep. 2018). “*Montage: Capturing Collective Behavior with Modeling and Experimentation.*”

Source of Support: Defense Advanced Research Projects Agency (DARPA) (Department of the Interior (DOI)) – Next Generation Social Science (NGS2).

Total Amount Awarded: $312,500 (BI Portion: $126,774)

Total Award Period Covered: 10/17/2016-10/16/2018

Effort: 0.44 months cy

* PI: Keller, S; Co-PI: **Korkmaz, G.**, et al. (Jun. 2015 – Jun. 2018). “*Towards an Integrated Data Framework for Understanding the Context of Military Environments*.”

Source of Support: Army Research Institute (ARI)

Total Amount Awarded: $1,691,337

Total Award Period Covered: 6/15/2015-6/14/2018

Effort: 2.34 months cy

* PI: Keller, S; Co-PI: **Korkmaz, G.**, et al. (Apr. 2016 – Apr. 2021). “NSF Use Statistical and Survey Methodology Research to Improve or Redesign Surveys.”

Source of Support: United States Department of Agriculture (USDA) (National Science Foundation (NSF))

Total Amount Awarded: $500,000

Total Award Period Covered: 4/15/2016-4/14/2021

Effort: 3.34 months cy

* PI: Keller, S; Co-PI: **Korkmaz, G.**, et al. (Dec. 2015 – May 2017). “*Feasibility and Efficacy of Matching Public Records with Sample Surveys.*” Funding Agency: US Census Bureau and Housing and Urban Development (HUD).

Source of Support: Census Bureau (United States Department of Housing and Urban Development (HUD))

Total Amount Awarded: $575,000 (BI Portion: $575,000)

Total Award Period Covered: 12/1/2015-5/30/2017

Effort: 2.4 months cy

* PI: Keller, S; Co-PI: **Korkmaz, G.**, et al. (Aug. 2016 – Nov. 2016). “*Bringing Evidence-Based Decision Making to Local Communities through Community Learning.*”

Source of Support: Laura & John Arnold Foundation

Total Amount Awarded: $144,000

Total Award Period Covered: 08/1/2016-11/30/2016

* PI: Keller, S. (May 2016 – Aug. 2016). “*REU Site: Diverse Undergraduate Research Experiences in Statistics.*”

Source of Support: American Statistical Association (National Science Foundation (NSF))

Total Award Period Covered: 05/10/2016-08/09/2016

Total Amount Awarded: $38,666

* PI: Higdon, D; Co-PI: **Korkmaz, G.** and Keller, S. (Apr. 2015 – Mar. 2016). “*Initiative Launch Inventory Analytics for Beauty Care.*”

Description: A joint P&G /VT project to identify and test analytical approaches to improve planning for oral care initiative launches with the goal to reduce inventory, increase product quality, and increase demand responsiveness.

Source of Support: Procter & Gamble

Total Amount Awarded: $125,000

Total Award Period Covered: 04/01/2015-03/31/2016

* PI: **Korkmaz, G.** (Aug. 2014 – Dec. 2014). “P&G *Sankey Visualization for United Kingdom (UK) & North America (NA) Shipments.*”

Description: Project to develop processes for implementing Sankey diagrams as a key visualization tools to track shipments.

Source of Support: Procter & Gamble

Total Amount Awarded: $50,000

Total Award Period Covered: 08/15/2014-12/15/2014

Key Personnel

* PI: Keller, S. (May 2015 – Jan. 2016). “A Pilot Study to Establish Data Use and Quality Standards for Using New Sources of Structured and Unstructured Data.”

Source of Support: MITRE (Census)

Total Award Period Covered: 05/01/15-01/11/16

Total Amount Awarded: $578,499

* PI: Shipp, S. (Jul. 2014 – Feb. 2016). “*End-to-End Digitization and Supply Chain Modeling Framework.*”

Description: A joint P&G/VT project to develop and implement an innovative information integration technology framework for the development of strategic and tactical (big) data informatics models that could be used to realize a digital E2E synchronized supply chain.

Source of Support: Procter & Gamble

Total Award Period Covered: 07/01/2014-02/29/2016

Total Amount Awarded: $525,000

Postdoctoral Associate

* PI: Ramakrishnan, Narendran. Postdoc: **Korkmaz, G.** (**Apr. 2012** – Feb. 2014). “*Early Model-Based Event Recognition Using Surrogates.*”

Source of Support: Intelligence Advanced Research Projects Activity (IARPA) - Open Source Indicators (OSI).

Total Amount Awarded: $16,314,976

Total Award Period Covered: 04/01/12-04/08/16

* PI: Vullikanti, Anil. Postdoc: **Korkmaz, G.** (Jul. 2012 – Feb. 2014). “ICES:Large:Collaborative Research: The Role of Space, Time, and Information in Controlling Epidemics.”

Source of Support: National Science Foundation (NSF)

Total Amount Awarded: $295,000

Total Award Period Covered: 07/01/12-06/30/16

* PI: Marathe, Madhav. Postdoc: **Korkmaz, G.** (Jul. 2012 – Feb. 2014). “NetSE: Large: Collaborative Research: Contagion in Large Socio-Communication Networks.”

Source of Support: National Science Foundation (NSF)

Total Amount Awarded: $2,998,238

Total Award Period Covered: 08/15/10-07/31/16

* PI: Barrett, Christopher. Postdoc: **Korkmaz, G.** (Jul. 2012 – Feb. 2014). “Comprehensive National Incident Management System (CNIMS) - Task 1.”

Source of Support: Defense Threat Reduction Agency (DTRA), US Department of Defense

Total Amount Awarded: $18,835,507

Total Award Period Covered: 10/01/11-09/28/17

Graduate Research Assistant

* PI: Barrett, Christopher. (Mar. 2009 – Jul. 2012), “High Performance Computing Methods for Inference State Assessment and Course of Action Analysis in Large Socio-Technical Methods.”

Source of Support: Defense Threat Reduction Agency (DTRA), US Department of Defense

Total Amount Awarded: $1,425,000

Total Award Period Covered: 03/11/09-07/14/12

* PI: Marathe, Madhav. (Sep. 2010 – Aug. 2015), “SDCI NMI New: From Desktops to Clouds -- A Middleware for Next Generation Network Science.”

Source of Support: National Science Foundation (NSF)

Total Amount Awarded: $1,350,000

Total Award Period Covered: 09/01/10-08/31/15

* PI: Trechsel, Alexander H., Department of Political and Social Sciences, European University Institute. (Sep. 2008 – Jun. 2009), “*EU Profiler: The First Europe-wide Voting Advice Application for 2009 European Parliamentary Elections.*”

Source of Support: European Union Democracy Observatory (EUDO), consortium with Kieskompas and the NCCR Democracy (University of Zurich/ Zentrum für Demokratie Aarau)/Politools network.

Role (Korkmaz, G): Researcher & Country Team Leader for Turkey.

* Dept. of Economics, Boğaziçi University (Sep. 2005 – Aug. 2007),
* Independent Regulatory Agencies, PI: Prof. E. Unal Zenginobuz
* Center for Economic Design, PI: Prof. E. Unal Zenginobuz
* Experimental Economics, PI: Dr. Benedikt Herrmann (Univ. of Nottingham)
* Environmental Economics, PI: Prof. Fikret Adaman

# Intellectual Property

* Title: Volume-Based Model for Protest Forecasting. Disclosure Date: 10/26/2016. IP Disclosure: VTIP 17-041. Inventors: **Gizem Korkmaz**; Jose Cadena; Anil Kumar Vullikanti; Achla Marathe; Naren Ramakrishnan; VTIP Manager: Mike Miller, Virginia Tech.
* Title: Social Media Activity and Recruitment Based Model for Protest Forecasting. Disclosure Date: 10/26/2016. IP Disclosure: VTIP 17-042. Inventors:  Jose Cadena; **Gizem Korkmaz**; Anil Kumar Vullikanti; Achla Marathe; Naren Ramakrishnan; VTIP Manager: Mike Miller.
* Title: Civil Unrest Vocabulary. Disclosure Date: 10/26/2016. IP Disclosure: VTIP 17-043. Inventors:  David Mares; **Gizem Korkmaz**; Naren Ramakrishnan; Sathappan Muthiah; VTIP Manager: Mike Miller, Virginia Tech.

# Referee for Peer-Reviewed Journals and Conferences

PC Member of the Computational Social Science Society of the Americas 2016 (Sep. 2016); Social Network Analysis and Mining (Feb. 2016); Academy of Management Annual Meeting 2016, Organization and Management Theory Division (Feb 2016); Review of Network Economics (Mar. 2014 & Nov. 2014); Social Computing, Behavioral-Cultural Modeling and Prediction (Oct. 2013); Southern Economic Journal (Nov 2012); Journal of the Royal Society Interface (Feb. 2013)

# Conference Presentations & Invited Talks

“The Use of Multiple Data Sources to Predict Residential Smoke Detector Need”:

* Scholarship recipient and poster presenter at the 33rd National Association of Business Economists (NABE) Economic Policy Conference, Washington D.C., March 5-7, 2017.

“Building Resilient Communities: Harnessing the Power of Data”:

* Federal Reserve Board, Division of Consumer and Community Affairs Research Seminar, Washington D.C., February 23, 2017 *(with Sallie Keller and Stephanie Shipp)*.

“The Dynamics of Coordination, Common Knowledge and Collective Action on Social Networks”:

* Virginia Tech National Capital Region Faculty Association Outstanding New Faculty Lecture, Arlington, Dec. 2016.

“Collective Action and Common Knowledge: A Facebook Model”:

* Invited Seminar at the Department of Economics, Virginia Tech, Blacksburg, Feb. 2016.
* 13th International Conference in Autonomous Agents and Multiagent Systems, Paris, France, May 2014.
* III Workshop on “The Economics of Coordination and Communication.” Ravello, Italy, Jun. 2012.
* Virginia Bioinformatics Institute (VBI) Research Symposium, Virginia Tech, Blacksburg, Mar. 2012.
* Sunbelt XXXII: Social Network Analysis Conference, Redondo Beach, California, Mar. 2012.

“Coordination and Collective Action in Online Social Network Experiments”:

* The 2016 Annual Meeting of the American Economic Association, San Francisco, Jan. 2016.

## “Sharing Economy and Financial Inclusion”:

## Invited Speaker at Virginia Tech Roundtable on Financial Inclusion and Digital Platforms, Arlington, Dec. 2015.

“Leveraging External Data Sources to Enhance Official Statistics and Products”:

* Briefing at the U.S. Census Bureau, Washington, D.C., Dec. 2015 *(with Sallie Keller, Stephanie Shipp and Daniel H. Weinberg)*.

“The All Data Revolution as a New Resource to Improve 911 Response”:

* International Symposium on Next Generation Infrastructure, Washington D.C., Sep. 2015 *(with Emily Molfino).*
* Virginia Bioinformatics Institute (VBI) Research Symposium, Virginia Tech, Blacksburg, Apr. 2015.

“Towards an *in silico* Experimental Platform for Air Quality: Houston, TX as a Case Study”:

* International Symposium on Next Generation Infrastructure, Washington D.C., Sep. 2015 *(with Bianica Pires).*

“Combining Heterogeneous Online Data for Civil-Unrest Forecasting”:

* IEEE/ACM International Conference on Advances in Social Network Analysis and Mining (ASONAM), Paris, Aug. 2015.
* Invited Speaker at the Workshop on Big Data for Social Policy, Fields Institute, Toronto, Apr. 2015.

"Challenges of Twitter-based Predictions of Civil Unrest in Latin America":

* Invited Speaker at the NSF-CDI Project - Specialist Meeting - Human Dynamics in the Mobile Age: New Frontiers of Knowledge Discovery in Cyberspace and Big Data, San Diego, Aug. 2014.
* Virginia Bioinformatics Institute (VBI) Research Symposium, Virginia Tech, Blacksburg, Mar. 2013.

“R&D Collaboration in Collusive Networks”:

* 28th Annual Congress of the European Economic Association, Gothenburg, Aug. 2013.
* Games 2012 - The 4th World Congress of the Game Theory Society, Istanbul, Jul. 2012.
* Invited Speaker at “Networks and Institutions,” Bilkent Economics Annual Summer Workshop, Ankara, Jul. 2012.
* Sunbelt XXXII: Social Network Analysis Conference, California, Mar. 2012.
* XXXVI Symposium of Spanish Economic Association, Malaga, Dec. 2011.
* Governance, Market Structure, Networks and Innovation Conference, Univ. of Greenwich, London, Sep. 2011.
* 5th CLEEN (Competition Law and Economics European Network) Workshop, EUI, May 2011.
* UECE Lisbon Meetings: Game Theory and Applications, Lisbon, Nov 2010.
* Invited Seminar at the Department of Economics, Public University of Navarra, Pamplona, 2010.
* Annual Meeting of the Association of Southern European Economic Theorists (ASSET), University of Alicante, Oct. 2010.

“Congestion in R&D Collaboration Networks”:

* 7th UK Social Network Conference, University of Greenwich, London, Jul. 2011.

“On the Accountability of Independent Regulatory Agencies”:

* Annual Meeting of ASSET, Boğaziçi University, Istanbul, Oct. 2009.

Other Participations:

* Public-Academic Research Colloquium: Leveraging Administrative Data for Social Policy, Washington D.C., Nov. 2016.
* Biocomplexity Institute Research Symposium, Virginia Tech, Blacksburg, Nov. 2016.

### Summit on Social and Behavioral Sciences for National Security, National Academy of Sciences, Washington D.C., Oct. 2016.

### 2016 Minerva Research Initiative Meeting, Washington D.C., Sep. 2016.

### 2016 AAAS Annual Meeting, Washington D.C., Feb. 2016.

### 2015 Minerva Research Initiative Meeting, Washington D.C., Sep. 2015.

### JSM 2014 – Joint Statistical Meetings - American Statistical Association, Boston, Aug. 2014.

* Sunbelt XXX: Social Network Analysis Conference, Trento, Mar. 2010.
* DIME Conference: Organizing for Networked Innovation, Milano, May 2010.
* Annual Meeting of ASSET, European University Institute, Florence, Oct 2008.
* Society for Economic Design (SED) Conference, Bodrum, Jun. 2006.

# Professional Memberships

American Statistical Association (2014-present); American Economic Association (2012-present); European Economic Association (2012-present); Game Theory Society (2012-present); International Network for Social Network Analysis (2010-present)

# Other professional Experience and University Service

2017 – present Biocomplexity Institute Mission, Vision, Values Award Committee Member

2017 – present Biocomplexity Institute Research Seminar Program Committee Member

2016 – present Virginia Tech “Data Science for the Public Good” Student Program co-Lead

2016 – present AAAS Annual Meeting Poster Judge for Social Sciences

2016 – present American Statistical Association (ASA) Volunteer at U.S. Science and Engineering Festival

2015 – present Judge at the Northern Virginia Regional Science and Engineering Fair

2015 – present SDAL Student Admission Committee, Biocomplexity Institute of Virginia Tech

2014 – present SDAL Seminar Chair, Biocomplexity Institute of Virginia Tech

2014 – present Selected Ambassador of European University Institute

2013 – 2014 Graduate Seminar Co-organizer, NDSSL, Biocomplexity Institute of Virginia Tech

2009 – 2010 Elected Student Representative, European University Institute

2009 – 2010 Student Admission Committee (Ph.D.), European University Institute

2008 – 2011 Graduate Microeconomics Seminar Co-organizer, European University Institute

# Further Skills

Languages: Turkish (native), English (fluent), Italian (intermediate), German (basic)

Software & Programming: Mathematica, R, Stata, LaTeX, NetLogo, Pajek, Gephi, Python

Certificates: Teaching Skills Certificate (EUI, Sept. 2010)

# Trainings at Workshops & Summer Schools

* “An Introduction to Actor-Oriented Models in R-Siena” by Josh Lospinoso (University of Oxford) at the 7th UK Social Network Conference, London, July, 2011.
* “Exploratory Network Analysis with Gephi” by Sebastien Heymann (University P.Curie UPMC-Paris6) at the 7th UK Social Network Conference, London, July, 2011.
* “Supermodularity and Complementarity” by Prof. Rabah Amir (University of Arizona) at SSECO Summer School in Economics, Carlos III University of Madrid, May, 2011.
* “Introduction to the Modelling of Networks” by Prof. Matthew O. Jackson (Stanford University) at Sunbelt XXX: Social Network Analysis Conference, Trento, 2010.

# Student Grants & Honors

2011 PhD Grant to the XXXVI Symposium of Spanish Economic Association

2011 PhD Bursary to the 7th UK Social Network Conference, London

2011 Scholarship for SSECO 2011 Summer School in Economics, Uni. Carlos III de Madrid

2007 – 2011 EUI Graduate Scholarship by Italian Ministry of Foreign Affairs

2006 – 2007 Graduate Scholarship of Scientific and Technological Research Council of Turkey

2003 – 2005 Scholarship of Istanbul Metropolitan Municipality

2000 – 2005 Turkish Ministry Success Grant

# Collaborators, Co-authors & affiliations

Vega-Redondo, Fernando (Università Bocconi); Keller, Sallie (Virginia Tech); Barrett, Christopher (Virginia Tech); Marathe, Madhav (Virginia Tech); Marathe, Achla (Virginia Tech); Ramakrishnan, Naren (Virginia Tech); Fox, Edward (Virginia Tech); Vullikanti, Anil (Virginia Tech); Ravi, S.S. (Virginia Tech); Bickel, Warren (Virginia Tech); Montague, Read (Virginia Tech), Lohrenz, Terry (Virginia Tech); Kuhlman, Christopher (Virginia Tech); Swarup, Samarth (Virginia Tech); Higdon, Dave (Virginia Tech); Shipp, Stephanie (Virginia Tech); Orr, Mark (Virginia Tech); Lancaster, Vicki (Virginia Tech); Pires, Bianica (Virginia Tech); Goode, Brian (Virginia Tech); Goldstein, Josh (Virginia Tech); Ziemer, Katie (Virginia Tech); Molfino, Emily (Virginia Tech); Capra, Monica (Claremont University); Reese, Shane (BYU); Lakkaraju, Kiran (Sandia National Laboratories); Srinivasan, Aravind (University of Maryland); Getoor, Lise (University of California at Santa Cruz); Gupta, Dipak (San Diego State University); Mares, David (University of California at San Diego); Chen, Feng (University at Albany, SUNY); Katz, Graham (CACI Inc.); Dijk, Oege (Radboud University, Nijmegen); Trechsel, Alexander H. (European University Institute); Ensor, Katherine (Rice University); Weinberg, Daniel H. (US Census Bureau); Aizcorbe, Ana (US Bureau of Economic Analysis)

# References

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| Sallie Keller  Director & Professor of Statistics,  Social and Decision Analytics Lab (SDAL)  Biocomplexity Institute of Virginia Tech  VT-NCR Arlington, VA 22203  Tel: +1 571 858 3102  Email: [sallie41@vbi.vt.edu](mailto:sallie41@vbi.vt.edu) | Fernando Vega-Redondo (Ph.D Advisor)  Professor of Economics,  Dept. of Decision Sciences, Bocconi University,  Via Roentgen 1, 20136, Milano - Italy Tel: +39 02 5836 5632  Email: fernando.vega@unibocconi.it |  |
| Madhav Marathe (Postdoctoral Advisor)  Director & Professor of Computer Science,  Network Dynamics and Simulation Science Lab. Biocomplexity Institute of Virginia Tech  Blacksburg, VA 24061 Tel: +1 540 231 9210  Email: [mmarathe@vbi.vt.edu](mailto:mmarathe@vbi.vt.edu)  Achla Marathe (Postdoctoral Advisor)  Network Dynamics and Simulation Science Lab. Biocomplexity Institute of Virginia Tech  Blacksburg, VA 24061 Tel: +1 540 231 9210  Email: [amarathe@vbi.vt.edu](mailto:amarathe@vbi.vt.edu) | Narendran Ramakrishnan  Director & Professor of Computer Science,  Discovery Analytics Laboratory, Virginia Tech  VT-NCR Arlington, Office 5-026  Tel: +1 571 858 3331 Email: [naren@cs.vt.edu](mailto:amarathe@vbi.vt.edu) | | |