

SOHEIL SHAYEGH

CURRICULUM VITAE

PERSONAL DATA

Current Position: Scientist

Affiliation: RFF-CMCC European Institute on Economics and the Environment
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ORCID: 0000-0002-8960-8244
Citizenship: USA

EDUCATION:

PhD, Georgia Institute of Technology, Atlanta, USA, 2014
Major: Industrial Engineering, Economic Decision Analysis
Minor: Statistics
Dissertation Title: Developing an Adaptive Stochastic Integrated Model for Climate Change

MEng, American University of Armenia, Yerevan, Armenia, 2007
Major: Industrial and Systems Engineering
Thesis Title: Environmental Impact Assessment of Copper Production: A Case Study on Alaverdi Copper Factory in Armenia

MSc, AmirKabir University of Technology, Tehran, Iran, 2005
Major: Construction Engineering & Management
Thesis Title: International contracts for infrastructure development projects in Iran

BSc, Isfahan University of Technology, Isfahan, Iran, 2002
Major: Civil Engineering

FELLOWSHIPS:

Marie Skłodowska-Curie actions, 2016
 Individual fellowships (IF)
 Fondazione Eni Enrico Mattei, Milan, Italy

Science, Technology and Innovation Policy (STIP), 2014
 Enterprise Innovation Institute
 Georgia Institute of Technology, Atlanta, USA

Sam Nunn Security Fellowship Program, 2012
 Sam Nunn School of International Affairs
 Georgia Institute of Technology, Atlanta, USA

National Iranian American Council Fellowship, 2011
 U.S. House of Representatives, Washington DC, USA
 Office of Representative Rush Holt

RESEARCH APPOINTMENTS:

Scientist, 2019 - now
 European Institute on Economics and the Environments (EIEE), Milan, Italy
Studying the impacts of climate change on human systems

Research Fellow, 2018 - 2019
 Bocconi University, Milan, Italy
Developing an expert elicitation survey for DAC technologies

Marie Skłodowska-Curie Fellow, 2016 - 2018
 Fondazione Eni Enrico Mattei, Milan, Italy
Developing a Robust Climate Change Policymaking Decision Tool

Postdoctoral Research Scientist, 2014 - 2016
 Carnegie Institution for Science, Stanford University
Developing Integrated Assessment Models of Climate Change and Decision Tools for Climate Change Policy Making under Uncertainty

Graduate Research Assistant, 2009 - 2012
 H. Milton Stewart School of Industrial and Systems Engineering
 Georgia Institute of Technology, Atlanta, USA
 Advisor: Dr. Valerie Thomas
Developing a macroeconomic model for Climate Change policy evaluation

Graduate Research Assistant, 2013 - 2014
 School of Building Construction
 Georgia Institute of Technology, Atlanta, USA
 Advisor: Dr. Baabak Ashuri
Developing a statistical model for price adjustment policies

Graduate Research Assistant, 2010
 INSEAD Business School
 INSEAD Abu-Dhabi Campus, UAE
 Advisor: Dr. Benjamin Warr
Developing an energy profile model of GCC countries

TEACHING APPOINTMENTS:

Instructor, Spring 2014
 Course: Engineering Economy, ISyE 3025
 H. Milton Stewart School of Industrial and Systems Engineering
 Georgia Institute of Technology

Teaching Assistant, 2011, 2012, 2013
 Course: Energy Technology and Policy, ISyE/PUBP 6701
 H. Milton Stewart School of Industrial and Systems Engineering
 Georgia Institute of Technology

Instructor, Spring 2008
 Course: Introduction to Probability and Statistics
 Department of Business and Marketing
 EURASIA International University, Yerevan, Armenia

PROFESSIONAL APPOINTMENTS:

Director of Research and Development, 2008 - 2009
 EURASIA International University, Yerevan, Armenia
Coordinating research grants and projects

QA/QC Manager, 2007 - 2008
 HADISH Engineering Company, Thika, Kenya
Conducting quality tests and procedures

Founder & CEO, 2005 - 2006
 Palar Paya Espadana, Isfahan, Iran
Constructing several city development projects

Structural Engineer, 2005 – 2006
 Palar Paya Espadana, Isfahan, Iran
Designing post-tensioned concrete buildings for ADAPT corporation in UAE

JOURNAL PUBLICATIONS:

1. Shayegh, S., Bosetti V., & Tavoni M. (2021). Future Prospects of Direct Air Capture Technologies: Insights from an Expert Elicitation Survey. *Frontiers in Climate* (doi: [10.3389/fclim.2021.630893](https://doi.org/10.3389/fclim.2021.630893)).
2. Shayegh, S., Manoussi V., & Dasgupta, S. (2020). Climate change and development in South Africa: The impact of rising temperatures on economic productivity and labor availability. *Climate and Development* (doi: [10.1080/17565529.2020.1857675](https://doi.org/10.1080/17565529.2020.1857675)).
3. Falchetta, G., Hammad A. T., & Shayegh, S. (2020). Planning universal accessibility to public healthcare in sub-Saharan Africa. *Proceedings of the National Academy of Sciences of the United States of America (PNAS)* (doi: [10.1073/pnas.2009172117](https://doi.org/10.1073/pnas.2009172117)).
4. Shayegh, S. & Sanchez, D. L. (2020). Impact of market design on cost-effectiveness of renewable portfolio standards. *Renewable and Sustainable Energy Reviews*, 136. (doi: [10.1016/j.rser.2020.110397](https://doi.org/10.1016/j.rser.2020.110397)).
5. Antonelli, C., Coromaldi, M., Dasgupta, S., Johannes, E., & Shayegh S. (2020). Climate impacts on nutrition and labor supply disentangled – an analysis for rural areas of Uganda. *Environment and Development Economics* (doi: [10.1088/1748-9326/ab0843](https://doi.org/10.1088/1748-9326/ab0843)).
6. Casey, G., Shayegh, S., Moreno-Cruz, J., Bunzl, M., Galor, O., & Caldeira, K. (2019). The impact of climate change on fertility. *Environmental Research Letters*, 14(5), 054007 (doi: [10.1088/1748-9326/ab0843](https://doi.org/10.1088/1748-9326/ab0843)).
7. Heutel, G., Moreno-Cruz, J., & Shayegh, S. (2018). Solar geoengineering, uncertainty, and the price of carbon. *Journal of Environmental Economics and Management*, 87, 24-41 (doi: [10.1016/j.jeem.2017.11.002](https://doi.org/10.1016/j.jeem.2017.11.002)).
8. Shayegh, S. (2017). Outward migration may alter population dynamics and income inequality. *Nature Climate Change*, 7(11), 828-832 (doi: [10.1038/nclimate3420](https://doi.org/10.1038/nclimate3420)).
9. Shayegh, S., Sanchez, D. L., & Caldeira, K. (2017). Evaluating relative benefits of different types of R&D for clean energy technologies. *Energy Policy*, 107, 532-538 (doi: [10.1016/j.enpol.2017.05.029](https://doi.org/10.1016/j.enpol.2017.05.029)).

10. Shayegh, S., Moreno-Cruz, J., & Caldeira, K. (2016). Adapting to rates versus amounts of climate change: a case of adaptation to sea-level rise. *Environmental Research Letters*, 11(10), 104007 (doi: [10.1088/1748-9326/11/10/104007](https://doi.org/10.1088/1748-9326/11/10/104007)).
11. Heutel, G., Moreno-Cruz, J., & Shayegh, S. (2016). Climate tipping points and solar geoengineering. *Journal of Economic Behavior & Organization*, 132, 19-45 (doi: [10.1016/j.jebo.2016.07.002](https://doi.org/10.1016/j.jebo.2016.07.002)).
12. Ilbeigi, M., Ashuri, B., & Shayegh, S. (2016). Price adjustment clauses and submitted bid prices for major asphalt line items in highway projects. *Journal of Construction Engineering and Management*, 142(5), 04015103 (doi: [10.1061/\(ASCE\)CO.1943-7862.0001097](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001097)).
13. Shayegh, S., & Thomas, V. M. (2015). Adaptive stochastic integrated assessment modeling of optimal greenhouse gas emission reductions. *Climatic change*, 128(1-2), 1-15 (doi: [10.1007/s10584-014-1300-3](https://doi.org/10.1007/s10584-014-1300-3)).

WORK IN PROGRESS:

1. Shayegh, S., Emmerling J., & Tavoni M. (). International Migration Projections across the Shared Socioeconomic Pathways. *Journal of Ethnic and Migration Studies*, (Under review).
2. Shayegh, S., & Dasgupta S. (). Climate Change Effects on Labor Availability and its Implications for Gender Inequality at Household Level in South Africa. *Climate and Development*, (Under review).
3. Dasgupta, S., Emmerling J., & Shayegh, S. (). Inequality and growth impacts from climate change - insights from South Africa. *Journal of Environmental Economics and Management*, (Under review).
4. Falchetta, G., Malpede, M., & Shayegh, S. (). Revisiting the Contribution of Potato to Population and Urbanization in 1700-1900: The Effect of Malaria. *Journal of Development Economics*, (Under review).
5. Shayegh, S., & Zheng Y. (). Climate change, inequality, and wealth transfer. *Annual Review of Environment and Resources*, (In preparation).
6. Shayegh, S., Dasgupta S., Ilbeigi M., & Gahrooei, MR (). COVID-19: The Great Equalizer or Inequality Magnifier? *Covid Economics*, (In preparation).

PREPRINTS:

1. Kelly, DL., Heutel, G., Moreno-Cruz, J., & Shayegh, S. (2021). *Solar Geoengineering, Learning, and Experimentation*. NBER Working Papers, (doi: [10.3386/w28442](https://doi.org/10.3386/w28442)).
2. Shayegh, S., Crippa, F., & Dasgupta, S. (2020). *COVID-19 Impacts and Responses: The Role of the National Governments and International Organizations* (doi: [10.2139/ssrn.3716100](https://doi.org/10.2139/ssrn.3716100))
3. Shayegh S., & Malpede M. (2020) *Staying Home Saves Lives, Really!* (doi: [10.2139/ssrn.3567394](https://doi.org/10.2139/ssrn.3567394))
4. Shayegh S., Sisco M., & Geffroy E. (2020). *Climate Concern and Policy Support Among Early-Career Scientists in Europe* (doi: [10.2139/ssrn.3540284](https://doi.org/10.2139/ssrn.3540284))
5. Shayegh S., & Herman K. (2019). *Earth and Health: Learning Across the Boundaries of Global Governance* (doi: [10.2139/ssrn.3320433](https://doi.org/10.2139/ssrn.3320433))
6. Shayegh S. et al. (2018). *Recalculating the Social Cost of Carbon* (doi: [10.2139/ssrn.3185991](https://doi.org/10.2139/ssrn.3185991))

BOOK PUBLICATIONS:

1. Shayegh S. "The Role of Biofuels in Achieving a National Energy Independence Plan" in "**The Handbook of Bioenergy**", Springer International Publishing, 2015 (ISBN 978-3-319-20091-0)
2. Shayegh S. "Environmental Impact Assessment of Copper Production: A Case Study on Alaverdi Copper Factory in Armenia", VDM Verlag Publisher, 2008 (ISBN 978-3-639-09444-2)
3. Shayegh S. "Practicing Customer Relationship Management (CRM) System: A case on an Armenian Bank", VDM Verlag Publisher, 2009 (ISBN 978-3-639-11412-6)
4. Sebt M. H. & Shayegh S. "BOT Contracts and their applications in Iran's infrastructure contracts" (in Farsi), Amirkabir University of Technology Publisher, 2006 (<http://www.aku-press.com/eBook.asp?M=6&Seq=487>)

POLICY BRIEFS:

1. "Geoengineering is no climate fix. But calling it a moral hazard could be counterproductive" Bulletin of the Atomic Scientists, 10 DEC 2019 (<https://thebulletin.org/2019/12/geoengineering-is-no-climate-fix-but-calling-it-a-moral-hazard-could-be-counterproductive/>)
2. "The untold migration story - How improved policies can benefit both receiving and sending societies" Scholars Strategy Network, 22 MAR 2018 (<https://scholars.org/contribution/untold-migration-story-how-improved-policies-can-benefit-both-receiving-and-sending>)

HONORS/AWARDS:

1. Southeast Regional Energy Symposium (SERES), Georgia Tech, 2013
2. Georgia Tech Research and Innovation Conference, Georgia Tech, 2013
3. Georgia Tech Research and Innovation Conference, Georgia Tech, 2011

REFERENCES:

1. Dr. Massimo Tavoni, EIEE, Massimo.tavoni@eiee.org
2. Dr. Valentina Bosetti, Bocconi University, valentina.bosetti@unibocconi.it
3. Dr. Ken Caldeira, Carnegie Institution for science, kcaldeira@carnegiescience.edu
4. Dr. Valerie Thomas, Georgia Institute of Technology, valerie.thomas@isye.gatech.edu