

J.C. MARTEL
 UNIVERSITY OF KANSAS
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EDUCATION

PhD in Public Affairs and Administration, <i>In progress</i>	2019
University of Kansas	
Master in Public Administration, <i>Pi Alpha Alpha Honors Society</i>	
University of Colorado at Denver	2013
Bachelors of Science in Urban Studies, <i>Cum Laude</i>	
Worcester State College	2004

TECHNOLOGY PROFICIENCY

Skills	Research design	Research methods	Mixed Methods
	Machine learning	Artificial Intelligence	Statistical modeling
	Data mining	Pattern discovery	Text mining
	Web scraping	API integration	
Tools	Python	R	SQL
	STATA	Tableau	Command Line
	Flask Web Framework	NVivo	
	Hadoop (HDFS, Hive)	Spark	PuTTY
	Microsoft SQL Server (t-SQL)	Teradata	SQLite
Operating Systems	Windows OS/Unix	Mac OS/Linux-based	

TEACHING INTERESTS

Data Science	AI/Machine Learning	Subject Areas	Programming
<ul style="list-style-type: none"> • Research Design & Methods • Text Mining • Web Scraping • Applied Data Mining 	<ul style="list-style-type: none"> • Predictive Modeling • Expert Systems • Clustering, Classification, Regression • Model Production 	<ul style="list-style-type: none"> • Environmental Policy • Urban Policy • Public or Business Administration 	<ul style="list-style-type: none"> • Python

GRADUATE RESEARCH POSITIONS

2015	University of Kansas	School of Public Affairs
2013-2014	University of Colorado Denver	School of Public Affairs
2012-2013	University of Colorado Boulder	LEEDS Business School

EMPLOYMENT HISTORY

9/2017 - Present	ARTIFICIAL INTELLIGENCE ARCHITECT Insurance Premium Financing Solutions, Kansas City, Missouri <ul style="list-style-type: none">• Launch new machine learning & data science initiative• Deploy data science pipeline w/ data wrangling, model build & production• Operationalize high level business use cases into data science projects
12/2016 - 8/2017	DATA SCIENTIST Hallmark, Kansas City, Missouri <ul style="list-style-type: none">• Predictive & explanatory modeling, machine learning, econometrics• Big data processing & advanced analytics using Hadoop, Apache Spark, Teradata, SQL, R
8/2015 - 12/2016	DATA SCIENTIST City of Kansas City, Mo Government, Kansas City, Missouri <ul style="list-style-type: none">• Developed new training program (Data Academy) to teach analytics to staff• Developed Sustainability Dashboard, Key Performance Indicator tracking• Implemented benchmarking policy to collect & analyze environmental data• Contributed to national Standard Energy Efficiency Data (SEED) platform• Complied w/ data governance (Building Energy Data Exchange Specs)
6/2015 – 8/ 2015	BUSINESS INTELLIGENCE INTERN Mindmixer, Kansas City, Missouri <ul style="list-style-type: none">• Mined open data portals and ArcGIS-based REST web services to build a data repository for back end of a community research big data application• Used Python, Command Line Tools
3/2010 – 5/2013	PROGRAM ASSOCIATE Southwest Energy Efficiency Project, Boulder, Colorado <ul style="list-style-type: none">• Led multiple state and regional working groups and stakeholder groups• Contractor for Dept. of Energy and National Renewable Energy Lab
11/2008 – 3/2010	PROGRAM MANAGER Center for Resource Conservation, Boulder, Colorado <ul style="list-style-type: none">• Managed \$300k environmental program with investment from 7 cities

REFEREED JOURNAL ARTICLES

Published

- Martel, J.** (2017). Agenda setting and political control in India's sanitation policy subsystem. *Environmental and Urbanization Asia*, 8(2).
- Oloffson, K, Weible, C. Heikkila, T. and **Martel, J.** (2017). Using nonprofit narratives and news media framing to depict air pollution in Delhi, India. *Environmental Communication*.
- Martel, J.** 2015. Exploring the integration of energy efficiency and disaster management in public policies and programs. *Energy Efficiency*, 9(2): 533-543.
- Nagpure, A, Bhola, G. & **Martel, J.** 2014. Human health risks in National Capital Territory of Delhi due to air pollution. *Atmospheric Pollution Research*, 5(2).
- Gripne, S., **Martel, J.**, & Lewandowski, B. 2012. A market evaluation of Colorado's commercial high performance buildings. *Journal of Sustainable Real Estate*, 4(1): 123-148.

In Progress (Dissertation Work)

- Martel, J.** (*In Progress*). Interest groups, policy impacts and advocacy biases.
- Martel, J.** (*In Progress*). Business interest groups and urban environmental policies.
- Martel, J.** (*In Progress*). Business interest groups and green building regulations.

BOOKS & BOOK CHAPTERS

Published

- Krause, R. and **Martel, J.** (2018). Greenhouse gas management in *Sustainability Handbook: Case Studies and Practical Applications*. Palgrave Macmillan.

TEACHING EXPERIENCE

- Data Academy, 2016** - City of Kansas City, MO (City staff). *Fundamentals of Data Analysis*. Developed and delivered educational series to teach data analysis to government staff.
- Guest Lecturer, Spring 2014** - Sustainable Energy (Undergraduate), Josef Korbel School of International Studies, University of Denver. *How and why sustainably developing and retrofitting buildings is critical to reduce overall energy consumption*.
- Guest Lecturer, Spring 2014** - Solving Social and Community Issues (Honors Undergraduate), Human Resources Program, Metropolitan State College of Denver. *Strategies for advancing climate change policy: From global to local action*.
- Guest Lecturer, Fall 2013** - Seminar in Environmental Politics and Policy (Graduate). School of Public Affairs, University of Colorado Denver. *Voluntary programs and information disclosure using green buildings as a case study*.
- Syllabus Development, Fall 2013** - Developed graduate level *Introduction to Public Administration* syllabus as part of PhD coursework.
- Community Educator, Fall 2009 - Spring 2010** - Presented new government program, Boulder County Government. *Property-assessed clean energy financing (PACE) & Building Science 101*. (~20 community presentations).
- Trainer, Fall 2009** - Boulder County and Larimer County Governments (County staff). *Energy Corps Training Program*. Developed and delivered 3-day training for new government program.

ACADEMIC PRESENTATIONS

- Martel, J.** 2018. Association of Public Policy and Management Conference. Mexico City, Mexico. Business interest groups and urban environmental policies.
- Martel, J.** 2016. University of Turin, Sustainable Built Environment Conference. Turin, Italy. Understanding variation in building energy analyses: Using extent literature to explain policy outcomes.
- Martel, J.** & Krause, R. 2015. Association of Public Policy and Management Conference. The diffusion of climate protection approaches across U.S. cities with distinct greenhouse gas emissions profile types. Miami, Florida.
- K. Oloffson & **Martel, J.** 2014. University of Singapore Lee Kuan Yew School of Public Policy, Public Policy in Asia Conference. Singapore, SG. Understanding the narratives and framing of air pollution in Delhi, India.
- K. Oloffson & **Martel, J.** 2014. University of Minnesota, Sustainable Cities Monthly Collaboration Meeting, Webinar. Understanding policy actors' priorities concerning air pollution in Delhi, India.
- Martel, J.** & Oloffson, K. 2013. Workshop on Policy Process Research, University of Colorado Denver. Developing low-carbon cities in the US, China, and India: Experiences at the International Sustainability Summer School Program in India.
- Martel, J.** 2004. 10th Annual Undergraduate Conference, Urban and regional planning session. Boston, MA. Bicycling planning, policies, and the community: A case study of Worcester, Massachusetts.
- Martel, J.** 2004. Worcester State College, Our environmental future by Frank Moore Lappe. Invited panelist.

PROFESSIONAL PRESENTATIONS

- Martel, J.** 2016. Stakeholder engagement for benchmarking policy development. National Governor's Association meeting with Virginia policymakers and staff.
- Britt, M., **Martel, J.**, & Mason, P. 2011. Green building codes advocacy in a home rule state. Selected presentation at the Rocky Mountain Green Conference. Denver, CO.
- Martel, J.** 2011. Generating possibilities: smart energy living in Western Colorado. Invited keynote panel member at the FORE Alliance conference. Montrose, CO.
- Martel, J.** 2011. Green building codes. Invited presentation at the Department of Energy, Energy Codes 2011 Annual Conference. Salt Lake City, UT.
- Martel, J.** & Rossmiller, G. 2011. Energy codes of today and green codes of tomorrow. Invited presentation at the U.S. Green Building Council Colorado Chapter meeting. Denver, CO.
- Jones, P. & **Martel, J.** 2011. Indoor air quality tests. Presented for the Department of Energy Technical Assistance Program to recipients of federal funding. Webinar.
- Martel, J.** 2010. Denver Metro regional green building program recommendations. Presented to the Denver Metro Mayor's Caucus Environment Committee. Denver, CO.
- Britt, M., **Martel, J.** 2010. Green building codes, programs and standards. Invited presentation for the Department of Energy Technical Assistance Program. Webinar.
- Desrosiers, K., **Martel, J.** & Woodward, J. 2008. Overview of Center for Resource Conservation waste, water, and energy programs. Presented at the Hogan & Hartson law firm, Martin Acres neighborhood meeting and Whole Foods luncheon. Boulder, CO.

Averill, M., Bowser, G., Hagenstad, M., Koehn, J., Kim, M., Lovins, H., **Martel, J.** 2009. Bringing Copenhagen home: a debrief from climate conference attendees. Invited panel member at the Center for Resource Conservation community debrief. Boulder, CO.

PROFESSIONAL REPORTS

- Martel, J.**, Meyers, J., Mazingo, S., Rossmiller, G., Weed, D. 2012. Energy code implementation planning guide. Boulder: Southwest Energy Efficiency Project.
- Martel, J.** & Meyers, J. 2011. A review of residential retrofit programs offered by utility companies in the southwest. Boulder: Southwest Energy Efficiency Project.
- Martel, J.** & Zuckerman, E. 2011. Split incentives overview and recommendations to Boulder County. Prepared for the Department of Energy Technical Assistance Program. Southwest Energy Efficiency Project, Boulder, CO.
- Martel, J.** & Meyers, J. 2010. New construction programs offered by utility companies in the southwest. Boulder: Southwest Energy Efficiency Project.
- Martel, J.** 2010. Regional recommendations and toolkit for green building programs in the Denver Metropolitan Area. Boulder: Southwest Energy Efficiency Project.
- Martel, J.** 2010. Residential Energy Action Program (REAP) 2010 annual report. Center for Resource Conservation, Boulder, CO.
- Martel, J.** 2009. Residential Energy Audit Program (REAP) 2009 annual report. Center for Resource Conservation, Boulder, CO.
- Martel, J.** 2009. Report on the GreenPoints green building program mandatory requirement for an energy audit. Center for Resource Conservation, Boulder, CO.

MEDIA INTERVIEWS AND ARTICLES

- Martel, J.** 2013 February 26. Collaborative Aims to Boost Momentum for Home Energy Efficiency Upgrades in the Southwest. *Home Energy Magazine*.
<http://www.homeenergy.org/show/article/nav/homeperformance/id/1849>
- Martel, J.** 2009. Local conservation programs. Invited guest interview at KGNU Radio. Boulder, CO.
- Lauffenburger, J. & **Martel, J.** 2008. Wonderland hill resident organizes neighbors for energy audits, insulation, and solar improvements. *Daily Camera Newspaper*.

PROFESSIONAL SERVICE

- Regional Working Group Lead**, Southwest Home Performance Collaborative, Nov 2011-May 2013
- Statewide Working Group Lead**, Colorado Code Compliance Collaborative, Feb 2012-May 2013
- Board Member**, Women in Sustainable Energy, Denver, CO, Jan 2012-Dec 2012
- Stakeholder Group Facilitator**, Denver Regional Green Building Collaborative, Mar 2010-Dec 2011
- Advisory Board Member**, Populus Sustainable Design & Consulting, Boulder, CO, Jan 2010-Jul 2010
- Admitted Observer**, 15th Conference of Parties (COP15), Copenhagen, Denmark, Nov 2009
- Volunteer Workshop Facilitator**, Solar and Green Home Tour, Longmont, CO, Sept 2008

ACADEMIC SERVICE

Referee/Reviewer: Politics & Policy, Energy Efficiency

HONORS AND AWARDS

University of Kansas Graduate School Conference Travel Award, \$1000	2018
University of Colorado School of Public Affairs Conference Travel Award, \$500	2014
University of Colorado Graduate School Conference Travel Award, \$500	2014
University of Colorado School of Public Affairs Doctorate Tuition Funding	2013-2014
Pi Alpha Alpha National Honors Society for Public Affairs and Administration	2013
University of Colorado School of Public Affairs Dean's Merit Scholarship, \$500	2013
Colorado Capital Conference Scholarship, \$1000 (approx.)	2012
Worcester State College Academic Achievement Award, \$100	2004
Worcester State College Academic Major Award, \$50	2004
Worcester State College Dean's List for Academic Excellence	2004
Millbury Credit Union Scholarship, \$200	1998

ASSOCIATIONS

Association for Information Systems	2018-Current
American Statistical Association	2016-2017
International Public Policy Association	2016-2017
Urban Affairs Association	2016-2017
Association of Public Policy and Management	2015-2016
Urban Land Institute (ULI)	2015-2016
American Planning Association (APA)	2015-2016
Women in Sustainable Energy (WISE), <i>Board Member</i>	2012
International Code Council (ICC)	2011-2012
U.S. Green Building Council	2009

REFERENCES

Rachel Krause, PhD
Assistant Professor, University of Kansas School of Public Affairs and Administration
RMKrause@ku.edu

Dorothy Daley, PhD
Professor, University of Kansas School of Public Affairs and Administration
DDaley@ku.edu

Tanya Heikkila, PhD
Associate Professor / PhD Program Director, University of Colorado at Denver School of Public Affairs
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