

## Daniel A. DeCaro, Ph.D.

### Associate Professor

University of Louisville

Department of Urban and Public Affairs  
426 W. Bloom Street  
Louisville, KY 40208

Department of Psychological and Brain Sciences  
2301 S. Third Street  
Louisville, KY 40292

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### Professional Experience

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<b>Associate Professor</b> ( <i>Assistant Professor</i> , July 2016 – 2020) Department of Urban and Public Affairs Department of Psychological and Brain Sciences University of Louisville	July 2020 - Present
<b>Term Assistant Professor</b> Department of Urban and Public Affairs Department of Psychological and Brain Sciences University of Louisville	July 2013 - 2016
<b>Research Associate</b> Center for Land Use and Environmental Responsibility (Director, Tony Arnold) Louis D. Brandeis School of Law University of Louisville	July 2013 - 2015
<b>Adjunct Professor, Instructor</b> Department of Psychological and Brain Sciences	Spring 2013
<b>Postdoctoral Researcher, Visiting Scholar</b> Vincent and Elinor Ostrom Workshop in Political Theory and Policy Analysis Indiana University, Bloomington - Advisors: Elinor Ostrom, Eduardo Brondizio, Jerome Busemeyer	Fall 2010 - 2013
<b>Assistant Director, Interdisciplinary Experimental Lab (IE-Lab)</b> Director: Jimmy Walker Indiana University, Bloomington	2011 - 2012

### Education

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<b>Ph.D. Psychological Science (Social Cognition)</b> Advisor: Dr. Joseph G. Johnson Miami University	2010
<b>Visiting Scholar (Political Psychology)</b> Summer Institute in Political Psychology, Stanford University	2008
<b>M.A. Psychological Science (Social Cognition)</b> Advisor: Dr. Joseph G. Johnson Miami University	2007
<b>B.A. Psychology and Philosophy</b> Summa cum Laude, Honors Western Kentucky University	2005

## Research Interests

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I am an interdisciplinary social scientist. My research examines motivation and decision-making processes in human governance and societal dilemmas. I am interested in three broad, interrelated research topics. First, how do people make decisions about governance and policies, and what motivates people to cooperate, in order to solve difficult societal problems? Second, how do democracies function, and how can democratic governance be improved? Third, how can we promote sustainability and resilience of social and ecological resources? I use a range of quantitative and qualitative research methods, from multiple disciplines, to examine these questions. I collaborate with experts and stakeholders from multiple domains to synthesize knowledge, methods, and solutions.

### Selected Topics:

- Rational Choice Theory (e.g., decision making, self-interest, cooperation)
- Social Cognition (e.g., motivation, perception, group behavior)
- Governance, Law, Public Policy (e.g., water, metropolitan).
- Community-Based Governance and Public Participation (participatory democracy)
- Sustainability and Resilience (e.g., adaptive governance, environmental law)

## Research Grants

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Legal Design Principles of Government-Supported Adaptation: Designing Effective Decentralization Programs in Cities and Vital Water Social-Ecological Systems. (Oct 2018 – Oct 2020). **National Socio-Environmental Synthesis Center (SESYNC). GSA Project**

Lead PIs: DeCaro, Edella Schlager (Arizona)

Collaborators: Adena Rissman (Wisconsin - Madison), Ahjond Garmestani (US EPA), Bill Blomquist (IUPUI), Blake Hudson (Houston), Elizabeth Baldwin (Arizona), Emmanuel Frimpong Boamah (Buffalo), Evan Dennis (IUB), Jorge García (Universidad de Los Andes), Murray Scown (Lund), Saba Siddiki (Syracuse), Sheila Foster (Georgetown)

Psychosocial, motivational, and cooperative effects of communication, enforcement, and participatory decision making in resource dilemmas. (2017-2022). **National Science Foundation (NSF): Decision, Risk & Management Sciences (Award #1658608)** \$690,551

DeCaro (Lead), Marco A. Janssen and Allen Lee (Co-PIs, Arizona State University)

Learning how the community leads: evaluating and informing city-based participatory engagement in West Louisville. (2017-2020). **Cooperative Consortium for Transdisciplinary Social Justice Research. University of Louisville.** \$26000

Angela Storey, DeCaro (Co-PI), Allison Smith, David Johnson, Lauren Heberle

The role of law and public participation in the evolution of resilient watershed institutions in Kentucky and Tennessee (2013). **Multidisciplinary Research Grant, University of Louisville** \$9902

Tony Arnold, DeCaro (Co-PI)

Dissertation Research Grant (2010), **Miami University** \$600

Field Research Grant in Aid (2009), **Society for the Psychological Study of Social Issues** \$2000  
DeCaro (Lead), Mike Stokes (Western Kentucky University)

Psychology Travel Small Grant Fund (2009), **Department of Psychology, Miami University** \$250

Conference Travel Grant (2009), University of Chicago Graduate School of Business, **Society for Judgment and Decision Making** \$500

## Publications

	Impact Factor <sup>1</sup>
<b>Journal Articles</b>	
<b>DeCaro, D. A., DeCaro, M. D., Hotaling, J., &amp; Johnson, J. G. (2020).</b> Procedural and economic utilities in consequentialist choice: Trading freedom of choice to minimize financial losses. <i>Judgment and Decision Making, 15</i> (4), 517-533. <a href="http://journal.sjdm.org/12/12425/jdm12425.pdf">http://journal.sjdm.org/12/12425/jdm12425.pdf</a>	2.95(3yr)
Weaver, J. P., Chastain, R. J., <b>DeCaro, D. A., &amp; DeCaro, M. D. (2018).</b> Reverse the routine: Problem solving before instruction improves conceptual knowledge in undergraduate physics. <i>Contemporary Educational Psychology, 52</i> , 36-47.	4.13
Allen, C., Birge, H., Angeler, D., Arnold, C., Chaffin, B., <b>DeCaro, D. A., Garmestani, A., &amp; Gunderson, L. (2018).</b> Quantifying uncertainty and tradeoffs in resilience assessments. <i>Ecology and Society</i> (22)1:3. <a href="https://doi.org/10.5751/ES-09920-230103">https://doi.org/10.5751/ES-09920-230103</a>	4.64
<b>DeCaro, D. A., Arnold, C. A., Frimpong Boamah, E., &amp; Garmestani, A. S. (2017).</b> Understanding and applying principles of social cognition and decision making in adaptive environmental governance. <i>Ecology and Society</i> 22(1):33. <a href="https://doi.org/10.5751/ES-09154-220133">https://doi.org/10.5751/ES-09154-220133</a>	4.64
<b>DeCaro, D. A., Chaffin, B. C., Schlager, E., Garmestani, A. S., &amp; Ruhl, J.B. (2017).</b> Legal and institutional foundations of adaptive environmental governance. <i>Ecology and Society</i> 22(1):32. <a href="https://doi.org/10.5751/ES-09036-220132">https://doi.org/10.5751/ES-09036-220132</a>	4.64
Craig, R. K., Garmestani, A. S., Allen, R. Arnold, C. A., Birgé, H., <b>DeCaro, D. A., Fremier, A. K., Gosnell, H., &amp; Schlager, E. (2017).</b> Balancing stability and flexibility in adaptive governance: An analysis of tools available in U.S. environmental law. <i>Ecology and Society</i> 22(2):3. <a href="https://doi.org/10.5751/ES-08983-220203">https://doi.org/10.5751/ES-08983-220203</a>	4.64
Cosens, B., Craig, R. K., Hirsh, S., Arnold, C. A., Benson, M. H., <b>DeCaro, D. A., Garmestani, A. S., Gosnell, H. Ruhl, J.B., &amp; Schlager, E. (2017).</b> The role of law in adaptive governance. <i>Ecology and Society</i> 22(1):30. <a href="https://doi.org/10.5751/ES-08731-220130">https://doi.org/10.5751/ES-08731-220130</a>	4.64
<b>DeCaro, D. A., Janssen, M. A., &amp; Lee, A. (with Ostrom, E). (2015).</b> Synergistic effects of voting and enforcement on internalized motivation to cooperate in a resource dilemma. <i>Judgment and Decision Making, 10</i> (6), 511-537. <a href="http://journal.sjdm.org/15/15529/jdm15529.pdf">http://journal.sjdm.org/15/15529/jdm15529.pdf</a>	2.62
<b>DeCaro, D. A., DeCaro, M. S., &amp; Rittle-Johnson, B. (2015).</b> Achievement motivation and knowledge development during exploratory learning. <i>Learning and Individual Differences, 37</i> , 13-26.	2.16
Arnold, C. A., Green, O. O., <b>DeCaro, D. A., Chase, A., &amp; Ewa, J.-G. (2014).</b> The social-ecological resilience of an eastern urban-suburban watershed: the Anacostia River Basin. <i>Idaho Law Review, 51</i> (1), 29-90.	0.36
<b>DeCaro, D. A., &amp; Stokes, M. K. (2013).</b> Public participation and institutional fit: a social-psychological perspective. <i>Ecology and Society, 18</i> (4), 40. [online] <a href="http://dx.doi.org/10.5751/ES-05837-180440">http://dx.doi.org/10.5751/ES-05837-180440</a>	4.64
<b>DeCaro, D. A. (2011).</b> Considering a broader view of power, participation, and social justice in the Ostrom Institutional Analysis Framework. <i>Grassroots Economic Organizing Newsletter, 2</i> (9). [online] <a href="http://geo.coop/node/651">http://geo.coop/node/651</a> .	–
<b>DeCaro, D. A., &amp; Stokes, M. (2008).</b> Social-psychological principles of community-based conservation and conservancy motivation: Attaining goals within an autonomy-supportive environment. <i>Conservation Biology, 22</i> (6), 1443-1451.	4.67

<sup>1</sup> 5-Year Impact Factor at time of publication if available (otherwise, longest available period).

**DeCaro, D. A.** (2003). What is capitalist exploitation? A critique of John Roemer's property-relations definition of exploitation. *AGORA: Online Undergraduate Research Journal of Humanities*, 4(2), 1-19. —

### **Book Chapters**

**DeCaro, D. A.** (2019). Humanistic rational choice: understanding the fundamental motivations that drive self-organization and cooperation in commons dilemmas. (Pages 117-131). In B. Hudson., J. Rosenbloom, & D. Cole (Eds), *Routledge Handbook of the Study of the Commons*. Routledge, New York, USA. —

**DeCaro, D. A.** (2018). Humanistic rational choice and compliance motivation in complex societal dilemmas. (Pages 126-147). In S. Siddiki, S. Espinosa, & T. Heikkila (Eds), *Contextualizing Compliance in the Public Sector: Individual Motivations, Social Processes, and Institutional Design*. Routledge, New York, USA. —

**DeCaro, D. A.,** Chaffin, B. C., Schlager, E., Garmestani, A. S., & Ruhl, J. B. (2018). Theory & research to study the legal and institutional foundations of adaptive governance. (Pages 269-288). In B. Cosens & L. Gunderson (Eds), *Practical Panarchy For Adaptive Water Governance: Linking Law to Social-Ecological Resilience*. Springer, Switzerland. —

**DeCaro, D. A.,** Arnold, C. A. T., Frimpong Boamah, E., & Garmestani, A. S. (2018). Theory and research to study principles of social cognition and decision-making in adaptive environmental governance. (Pages 289-312). In B. Cosens & L. Gunderson (Eds), *Practical Panarchy For Adaptive Water Governance: Linking Law to Social-Ecological Resilience*. Springer, Switzerland. —

Arnold, C. A. T., Green, O. O., **DeCaro, D. A.,** Chase, A., and J.-G. Ewa. (2018). Resilience of the Anacostia River Basin: institutional, social, and ecological dynamics. (Pages 33-46). In B. Cosens & L. Gunderson (Eds), *Practical Panarchy For Adaptive Water Governance: Linking Law to Social-Ecological Resilience*. Springer, Switzerland. —

Cosens, B., Craig, R. K., Hirsh, S., Arnold, C. A. T., Benson, M. H., **DeCaro, D. A.,** Garmestani, A. S., Gosnell, H., Ruhl, J. B., & Schlager, E. (2018). Legal pathways to adaptive governance in water basins in North America and Australia. (Pages 151-166). In B. Cosens & L. Gunderson (Eds), *Practical Panarchy For Adaptive Water Governance: Linking Law to Social-Ecological Resilience*. Springer, Switzerland. —

Craig, R. K., Garmestani, A. S., Allen, C. R., Arnold, C. A. T., Birge, **DeCaro, D. A.,** & Gosnell, H. (2018). Stability and Flexibility in the Emergence of Water Governance. Pages (167-182). In B. Cosens & L. Gunderson (Eds), *Practical Panarchy For Adaptive Water Governance: Linking Law to Social-Ecological Resilience*. Springer, Switzerland. —

Allen, C. R., Birge, H., Angeler, D. G., Arnold, C. A. T., Chaffin, B., **DeCaro, D. A.,** Garmestani, A. S., & Gunderson, L. (2018). Uncertainty and trade-offs in resilience assessments. (Pages 243-268). In B. Cosens & L. Gunderson (Eds), *Practical Panarchy For Adaptive Water Governance: Linking Law to Social-Ecological Resilience*. Springer, Switzerland. —

**DeCaro, D. A.** (2009). The promise and challenge of applying community psychology's praxis of empowerment to the burgeoning field of community-based conservation. In N. Lange & M. Wagner (Eds.), *Community Psychology: New Developments*, (pp. 143-160). New York: Nova Publishers, Inc. —

**DeCaro, D. A.,** Bar-Eli, M., Conlin, J., Diederich, A., Johnson, J. G., & Plessner, H. (2009). Toward a unitary theory of embodied decision making. In M. Raab, J. G. Johnson, H. Heerkeren (Eds.), *Progress in Brain Research: Mind and Motion – The Bidirectional Link Between Thought and Action*, Vol. 174 (pp. 189-203). Elsevier Publishing. 5.01

### **Conference Proceedings**

Bush, J., DeCaro, M.S., & **DeCaro, D.A.** (2020, March). Exploring Prior to Instruction —

Improves Conceptual Understanding and Cooperation in a Social Dilemma Game. Submitted to the *Annual Meeting of the Southern Society for Psychology and Philosophy*, Louisville, KY.

Velic, L., DeCaro, M. S., & **DeCaro, D. A.** (2020, March). Understanding How Communication Improves Cooperation in Social Dilemmas. Submitted to the *Annual Meeting of the Southern Society for Psychology and Philosophy*, Louisville, KY —

**DeCaro, D. A.**, Dietsch, W., & Frimpong Boamah, E. (June 20, 2019). Decentralized Provision of Community-Governed Greenspace in Two Cities: Chicago (IL) and Louisville (KY). *Workshop on the Ostrom Workshop (WOW6)*, Indiana University – Bloomington. —  
[online] <http://dlc.dlib.indiana.edu/dlc/handle/10535/10459>

Siddiki, S., Frimpong Boamah, E., Dennis, E., **DeCaro, D. A.**, & Sawyer, A. (June 20, 2019). State-Reinforced Neighborhood-Level Governance: A Study of Community Boards in New York City. *Workshop on the Ostrom Workshop (WOW6)*, Indiana University – Bloomington. [paper on file with author] —

**DeCaro, D. A.**, DeCaro, M. S., & Rittle-Johnson, B. (2013). Achievement motivation and strategy selection during exploratory learning. In M. Knauff, M. Pauen, N. Sebanz, & I. Wachsmuth (Eds.), *Proceedings of the 35th Annual Conference of the Cognitive Science Society* (pp. 370-375). Berlin, Germany: Cognitive Science Society

### **Popular Press** —

**DeCaro, D. A.** (Nov. 2018). Commentary: Louisville can “prosper” with shared decision-making and neighborhood planning. *Insider Louisville*.  
<https://insiderlouisville.com/government/commentary-louisville-can-prosper-with-shared-decision-making-and-neighborhood-planning/>

### **Journal Articles in Preparation & Under Review**

**DeCaro, D. A.**, Dietsch, W., & Frimpong Boamah, E. Decentralized Provision of Community-Governed Greenspace in Two Cities: Chicago (IL) and Louisville (KY).

Siddiki, S., Frimpong Boamah, E., Dennis, E., **DeCaro, D. A.**, & Sawyer, A. (June 20, 2019). State-Reinforced Neighborhood-Level Governance: A Study of Community Boards in New York City.

**DeCaro, D. A.**, Janssen, A., Lee, A., & Bush, J. Humanistic Rational Choice Theory: Rational agents communicate and self-govern to satisfy fundamental needs.

**DeCaro, D. A.**, Bush, J., & DeCaro, M. D. Playing games to improve conceptual understanding of social dilemmas.

### **Media Coverage**

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#### **Interviews**

- **UofL Today** with Mark Hebert (June 13, 2017). Interview about 2017 NSF grant, on cooperative decision making. <https://www.youtube.com/watch?v=Tq8GYsPYttc>
- **The Methodology for Psychology Podcast** with Brian Kissell (July 26, 2016). Interview about research article, “Synergistic Effects of Voting and Enforcement” (JDM 2015).

## Presentations

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### Colloquia and Invited Talks

**DeCaro, D.A.** (2019, November 7). Community-Based Governance and Resilience of Social-Ecological Systems in Africa and Beyond. *Western Kentucky University, Biology, Bowling Green KY.*

**DeCaro, D. A., DeCaro, D. A.** (2019, August 13). Catalyzing Community-Empowered Governance of Greenspaces in Marginalized City Neighborhoods: Reflecting on Multistakeholder Partnerships in Louisville and Chicago. Special panel: [Ecologist-Community Partnerships in Action: Lessons, Reflections, and Implications](#) (Kennedy Rubert-Nason, organizer). *2019 ESA (Ecological Society of America) & USSEE (United States Society for Ecological Economics ) Joint Meeting, Louisville, Kentucky.*

**DeCaro, D. A.** (2018, October). Decentralization and Democracy in Self-Governing Societies: A Comparative Case Study of Community Governance of Neighborhood Greenspaces in Chicago, IL and Louisville, KY. *Department of Geography and Geosciences, University of Louisville.*

**DeCaro, D. A.** (2017, September). Legal Design Principles for State Reinforced Self-Governance. *Vincent and Elinor Ostrom Workshop in Political Theory and Policy Analysis, Indiana University-Bloomington.*

**DeCaro, D. A.** (2014, February). Participatory Fit and Sustainable Common-Pool Resource Management. Department of Environmental Conservation, University of Massachusetts, Amherst

**DeCaro, D.A.** (2013, November). Participatory Fit and Sustainable Common-Pool Resource Management. School of Natural Resources and Environment, University of Michigan, Ann Arbor

**DeCaro, D.A.** (2013, October). Vincent and Elinor Ostrom Workshop in Political Theory and Policy Analysis, Indiana University, Bloomington

**DeCaro, D.A., Stokes, K. M.** (2012, March). Vincent and Elinor Ostrom Workshop in Political Theory and Policy Analysis, Indiana University, Bloomington

**DeCaro, D.A.** (2011, February). Vincent and Elinor Ostrom Workshop in Political Theory and Policy Analysis, Indiana University, Bloomington

**DeCaro, D. A.** (2010, September). Vincent and Elinor Ostrom Workshop in Political Theory and Policy Analysis, Indiana University, Bloomington

### Conference Panels & Symposia Organized

**State-Reinforced Self-Governance: Outlining the Future of Self-Governance Research and Policy in Highly Regulated Polycentric Cities and Metropolitan Systems.** (June 20, 2019). *Workshop on the Ostrom Workshop (WOW6), Indiana University – Bloomington.*

Daniel A. DeCaro, Edella Schlager (Organizers)

**Evaluating Public Participation to Address Historic Disenfranchisement and Empower Communities.** (September 5, 2019). *International Association for Public Participation (IAP2), North American Conference.*

Allison Smith, Daniel A. DeCaro (Organizers); Lauren C. Heberle, Angela Storey, David Johnson (Collaborators)

### Conference Talks

- DeCaro, D. A., Dietsch, W., & Frimpong Boamah, E.** (June 20, 2019). Decentralized Provision of Community-Governed Greenspace in Two Cities: Chicago (IL) and Louisville (KY). *Workshop on the Ostrom Workshop (WOW6), Indiana University – Bloomington*
- Chastain, R., Weaver, J. P., DeCaro, M. S., & **DeCaro, D. A.** (2017, July). Using an Explore-first Strategy in Introductory-level Courses. Paper presented at the *American Association of Physics Teachers Conference*, Cincinnati OH.
- Weaver, J. P., DeCaro, M. S., Chastain, R., & **DeCaro, D. A.** (2017, April). Exploration before instructions improves transfer in undergraduate physics. Paper presented at the *American Educational Research Association (AERA)*, University at Albany-State University of New York, NYC.
- Weaver, J. P., Chastain, R., DeCaro, M. S., & **DeCaro, D. A.** (2016, March). The impact of explore-first versus instruct-first in large enrollment introductory courses. Paper presented at the *Kentucky Association of Physics Teachers Conference*, Centre College, KY.
- DeCaro, D.A.** (2015, May). Psychological and contextual determinants of effective community-based participatory decision making. *International Association for the Study of the Commons, Biannual Meeting*, Alberta, Canada.
- DeCaro, D. A.,** Janssen, M. A., and Lee, A. (2014, June). Using interdisciplinary psychological science to understand decisions in the social-ecological laboratory. *Fifth Workshop on the Ostrom Workshop (WOW5)*, Indiana University, Bloomington.
- DeCaro, D. A.,** DeCaro, M. S., & Rittle-Johnson, B. (2013, August). Achievement motivation and strategy selection during exploratory learning. *Conference of the Cognitive Science Society*, Berlin, Germany.
- DeCaro, D. A.,** Hotaling, J. M., & Johnson, J. G. (2012, May). Accounting for procedural utility: When decision procedures alter the evaluation of outcomes in consequentialist choice. *Midwestern Cognitive Science Conference*, Bloomington, IN.
- DeCaro, D. A.,** Stokes, K. M., Kimwele, C. M., & Kasaine, S. (2011, December). Diagnosing the importance of participation across social-ecological settings: A commitment-based social-psychological approach. *Y673 Mini-Conference, Workshop in Political Theory and Policy Analysis*, Indiana University, Bloomington, IN.
- DeCaro, M. S., **DeCaro, D. A.,** & Rittle-Johnson, B. (2011, September). Preparing to learn from math instruction: Mastery-oriented students benefit most from exploratory activities. Paper presented at the annual meeting of the *Society for Research on Educational Effectiveness*, Washington DC.
- DeCaro, D. A.** (2010, December). Participatory inclusion in management as the means and ends to sustainable self-governance. *Y673 Mini-Conference, Workshop in Political Theory and Policy Analysis*, Indiana University, Bloomington, IN.
- DeCaro, D. A.,** & Johnson, J. G. (2008, November). In pursuit of procedural utility: The role of autonomy in felt utility during decision making. *Society of Judgment & Decision Making*, Chicago, IL.
- Joseph, J. G., **DeCaro, D. A.,** & Koop, G. (2008, November). Decision making under time pressure: Implications for dual systems and strategy-switching. *Society of Judgment & Decision Making*, Chicago IL.
- DeCaro, D. A.,** & Johnson, J.G. (2008, May). On the problem-solving behavior of extrinsically-motivated intrinsics: Reconceptualizing self-determination theory's underlying model of control motivation. *Midwestern Psychological Association*, Chicago, IL.
- DeCaro, D. A.,** & Johnson, J. G. (2007, November). Motivation in judgment and choice: Strategy, duration, and accuracy of judgment as a function of intrinsic and extrinsic motives. *Society of Judgment and Decision Making*, Long Beach, CA.
- DeCaro, D. A.,** & Johnson, J. G. (2007, November). Self-Determination Motivation Inventory (SDMI): A new measure of extrinsic and intrinsic motivation. *Midwestern Psychological Association*, Long Beach, CA.
- DeCaro, D. A.,** Korschova, K., & Mutter, S. A. (2004, July). The effects of working-memory loads on the feature-positive effect in young adults. *REU Psychology Mini Conference*, Bowling Green, KY.

## **Conference Posters**

- Johnson, D., Storey, A., Smith, A., DeCaro, D.A., & Heberle, L. (2019, November 2-6). Evaluating City-Based Participatory Engagement Practices toward Health Equity in Louisville, KY. *American Public Health Association (APHA) Annual Meeting and Expo, Philadelphia, PA*.
- DeCaro, D.A.**, Janssen, M., & Lee, A. (2015, November). Synergistic effects of voting and enforcement on internalized motivation to cooperate in a resource dilemma. *Society for Judgment and Decision Making*, Chicago, IL.
- DeCaro, D. A.**, Hotaling, M. J., & Johnson, J. G. (2012, November). Accounting for procedural utility: When decision procedures alter the evaluation of outcomes in consequentialist choice. *Society for Judgment and Decision Making*, Minneapolis, MN.
- DeCaro, D. A.**, & Johnson, J. G. (2011, January). Chronic task interest buffers autonomy and intrinsic motivation against the undermining effects of coercion. *Society of Personality and Social Psychology*, San Antonio, TX.
- DeCaro, D. A.**, & Johnson, J. G. (2010, November). Procedural utility—Decisions driven by competing concerns for fair decision-procedures and attractive outcomes. *Society for Judgment and Decision Making*, St. Louis, MO.
- DeCaro, D. A.**, & Johnson, J. G. (2010, August). Tradeoffs between fair decision making procedures and attractive instrumental outcomes. *Cognitive Science Society Annual Meeting*, Portland, OR.
- DeCaro, D. A.**, & Johnson, J.G. (2009, November). Chronic intrinsic motivation qualifies the effect of situational extrinsic incentives on problem solving. *Psychonomic Society Annual Meeting*, Boston, MA.
- DeCaro, D. A.**, & Johnson, J. G., & Stokes, M. (2008, November). Freedom of choice: Procedural utility from a ubiquitous human need. *Pre-conference, Society of Judgment and Decision Making*, Chicago, IL.
- DeCaro, D. A.**, & Johnson, J.G. (2008, June). Motivational and social justice frameworks: Lessons from community-based conservation. *Society for the Psychological Study of Social Issues*, Chicago, IL.
- DeCaro, D. A.**, & Johnson, J. G. (2008, May). Intrinsic motivation in judgment process and accuracy. *Association for Psychological Science*, Chicago, IL.
- DeCaro, D. A.**, & Johnson, J. G. (2007, May). Validating a new measure of autonomous and heteronomous motivation: The Self-Determination Motivation Inventory (SDMI). *3<sup>rd</sup> International Conference on Self-Determination Theory*, Toronto, ON, Canada.
- Raab, M., Johnson, J. G., & **DeCaro, D. A.** (2007, May). Modeling option generation and resulting choices in realistic, dynamic sports situations. *Society of Judgment and Decision Making*, Long Beach, CA.
- Reese, G., **DeCaro, D. A.**, & Johnson, J. G. (2007, April). Computer software for testing a computational model of judgment and choice. *Center for the Advancement of Computational Research*, Oxford, OH.

## **Collaborative Research Groups**

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- Coordinating and Advancing Analytical Approaches for Policy Design** 2019 - Present  
[Research Coordination Network \(RCN\)](#), National Science Foundation (NSF)  
- Saba Siddiki (Syracuse), Charles Schweik (UMASS-Amherst)
- Challenges to and Opportunities for Developing Resilience in Rapidly Growing Urban Corridors in Semi-Arid Regions** 2019 - Present  
[Concepts for Advancing Sustainable Urban Systems \(SUS\) Research Networks](#)  
National Science Foundation (NSF)  
- Patrick Bixler (UT-Austin)
- Decentralization and Government-Supported Adaptation** 2018 - Present  
[National Socio-Environmental Synthesis Center \(SESYNC\)](#)



- Daniel DeCaro, Edella Schlager (University of Arizona)

**Adaptive Water Governance Project** 2013-2018

[National Socio-Environmental Synthesis Center \(SESYNC\)](#)

- Barbara Cosens (University of Idaho), Lance Gunderson (Emory)

**Contextualizing Compliance** 2015-2018

San Diego State University, Indiana University-Purdue University

- Salvador Espinosa (SDSU), Saba Siddiki (IUPUI)

## **Teaching & Mentorship Experience**

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### **Graduate Courses**

***Introduction to Sustainability*** Fall 2015 - 2016

Department of Urban and Public Affairs

University of Louisville

– New course offering for UPA (elective, and M.A. Sustainability Degree)

***Behavioral Dimensions of Sustainability (Environmental Decision Making)*** Spring 2014 – 2016

Department of Urban and Public Affairs

University of Louisville

– New course offering for UPA (elective, and M.A. Sustainability Degree)

***Sustainable Social-Ecological Systems*** Fall 2013 –Present

Department of Urban and Public Affairs

University of Louisville

– New course offering for UPA (elective, and M.A. Sustainability Degree)

### **Undergraduate Courses**

***Reasoning and Decision Making (Psyc 314)*** Spring 2019

Department of Psychological and Brain Sciences

University of Louisville

– New elective course offering for PBS

***Behavioral Dimensions of Sustainability/Environmental Decision Making*** Spring 2018

Department of Urban and Public Affairs

University of Louisville

– New course offering for UPA (Core course for B.A. Sustainability Degree)

***Sustainable Societal Systems*** Fall 2018

Department of Urban and Public Affairs

University of Louisville

– New course offering for UPA (Core course for B.A. Sustainability Degree)

***Quantitative Methods*** Spring 2013-2016

Department of Psychological and Brain Sciences

University of Louisville

***Quantitative Methods (Lab)*** 2005, 2007, 2008

Department of Psychology

Miami University

***Cognitive Psychology*** 2009

Department of Psychology

Miami University

## **Independent Research**

### **GRADUATE:**

PSYC 604. Reading/Introduction to Lab. Experimental Psychology, UofL

- 2 students (Summer 2019)

PSYC 605. Decision Science, UofL

- 2 students (Fall 2019)

PLAN 632. Integrative Sustainability Planning. Urban & Public Affairs, UofL

- 1 student (2017-2018)

### **UNDERGRADUATE:**

SUST 401 & PSYC 491/495/496. Environmental Governance & Sustainability, Environmental Psychology, & Social Decision Making (typical topics). Urban & Public Affairs, Psychological & Brain Sciences.

- 6 students (2019); 8, (2018); 3, (2017); 3, (2016); 2, 2015; 1 (2014) UofL
- 2 students (2012) Indiana University-Bloomington
- 5 students (2006-2010) Miami University

Summer Research Opportunity Program. UofL

10-week summer research mentorship

1 student (summer 2019) Psychological & Brain Sciences

## **Chaired Theses & Dissertations**

### **DOCTORATE (PHD):**

Rachel Appel (2019-Present), PhD Experimental and Developmental Psychology, UofL

Jason Bush (2019-Present, Co-Chair), PhD Experimental and Developmental Psychology, UofL

### **MASTERS:**

Betsy Ruhe (2016-2017), M.A. Interdisciplinary Studies: Concentration Sustainability, UofL

An Assessment of Sustainability in Jefferson County Public Schools (Kentucky)

*\*First graduate of the degree program.*

Willow Dietsch (2016-2018), M.A. Interdisciplinary Studies: Concentration Sustainability, UofL

State-Reinforced Self-Governance of Community-Managed Open Space in

Chicago, IL, and Louisville, KY.

### **UNDERGRADUATE:**

Jason Bush (2018-2019), B.A. Psychology, Minor Anthropology, UofL

Psychology Honors and University Honors (defended March 22, 2019)

Playing games to improve conceptual understanding and cooperation in social dilemmas.

## **Committee Member**

### **DISSERTATIONS:**

Emmanuel Frimpong Boamah, PhD UPA (defense December 7, 2016)

Ronald Smith, PhD Clinical Psychology (defense March 23, 2018)

Stephanie McDonough, PhD Clinical Psychology (defense June 13, 2018)

Matthew Fischer, PhD UPA (defense July 17, 2019)

Ekramul Islam, PhD UPA (ongoing)

Glyptus Grider Jones, PhD UPA (ongoing)

## THESES:

Lianda Velic, Undergraduate Thesis (defended April 5, 2019)

## Student Awards

Lianda Velic. Summer Research Opportunity Program (SROP) Grant, \$500 University of Louisville	Summer 2019
Jason Bush. Undergraduate Research Scholars Grant, \$300 University of Louisville	2018
Jeremy Jackson. Research Fellowship, \$2000 Cooperative Consortium for Transdisciplinary Social Justice Research, University of Louisville	2017
Natasha Messinger, Undergraduate Research Award, Miami University, \$450	2009

## Teaching Development

<i>Green Threads Teaching Enhancement, University of Louisville, \$500</i> Sustainability Council	2015
<i>Teaching Development Grant, Miami University, \$250</i> Graduate Student Teaching Enhancement Program	2009
<i>Alumni Teaching Scholars Program, Miami University</i>	2008
<i>APA-Sponsored Preparing Future Faculty Program, University of New Hampshire</i>	2006

## Non-Traditional

<i>Interdisciplinary Research Methods, Discussion Group Coordinator</i> Vincent and Elinor Ostrom Workshop in Political Theory and Policy Analysis Indiana University - Bloomington	2011-2012
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## Honors and Awards

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### Teaching

<i>Faculty Favorite Award, Quantitative Methods in Psychology</i> Delphi Center for Teaching and Learning University of Louisville	2014-2015
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### Graduate (Miami University)

Graduate Student Achievement Award, Miami University	2009, 2010
Graduate Assistantship, Miami University	2005-2010

### Undergraduate (Western Kentucky University)

Ogden Trustees' Award, Graduating senior with highest cumulative GPA	2005
Senior Psychological Sciences Academic Achievement Award	2005
Excellence in Philosophical Scholarship Award	2005
Jagers-Cave Academic Scholarship (Full Tuition Waiver)	2003-2004
College Heights Foundation Award	2002, 2004
Honors Program Tuition Scholarship	2001-2005
President's Scholar	2001-2005
Dean's Scholar	2001-2005

Kentucky Education Excellence Scholarship  
National Dean's List

2001-2005  
2001-2005

## **Leadership and Service**

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### **Academic and Research Program Development**

#### ***Education & Research Committee, University of Louisville Sustainability Council***

– Member (Fall 2015-Present), Chair (Spring 2017), Co-Chair (Fall 2016)

#### ***B.A. Sustainability Degree Program Development (Degree Offered Fall 2018)***

Fall 2015-2018

University of Louisville

– Assisted Chair, David Simpson

### **Community Service and Partnership**

#### ***Partnership for a Green City, Behavioral Sustainability Team***

Fall 2016-Present

UofL, Louisville Metro Government, Jefferson County Public School District,  
Jefferson Community and Technical College

– Member (Fall 2016-Present), Co-Chair (Fall 2016-2018)

#### ***Co-Organizer, Green Threads (Faculty Enrichment Program)***

Fall 2017-Present

Sustainability Council, University of Louisville

#### ***Co-Organizer, Sustainability Roundtable***

Fall 2016-Present

Sustainability Council, University of Louisville

#### ***Collaborator, Louisville Urban Agriculture Coalition, Policy Subgroup***

Spring 2019-Present

### **Ad-hoc Reviewer (Sustainability Science, Environmental Governance)**

African Journal of Political Science and International Relations  
Biodiversity Conservation  
Conservation Biology  
Ecological Economics  
Ecology and Society  
Environmental Management  
Environmental Politics  
International Journal of the Commons  
Idaho Law Review  
Journal of Rural Studies  
Land Use Policy  
Policy Studies Journal  
Rural Studies  
Science of the Total Environment

### **Ad-hoc Reviewer (Psychological Science)**

Basic and Applied Social Psychology  
Journal of Psychology and Marketing  
Journal of Social Issues  
Journal of Sports Sciences  
Personality and Social Psychology Bulletin  
Pragmatics and Cognition

### **Ad-hoc Reviewer (Grants)**

National Science Foundation  
Swiss National Science Foundation  
University of Wisconsin Sea Grant, Aquatic Sciences Center

## **Professional Affiliations**

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<b><i>Workshop Affiliated Faculty</i></b> Vincent and Elinor Ostrom Workshop in Political Theory and Policy Analysis Indiana University – Bloomington	2013 - Present
<b><i>Affiliate, Center for Land Use and Environmental Responsibility</i></b> University of Louisville	2015 - Present
<b><i>Society for Judgment and Decision Making</i></b>	2005 - Present