

Daniel A. DeCaro, Ph.D.

Associate Professor

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Professional Experience

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

Education

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

Interdisciplinary Social Scientist

My research examines fundamental motivational, cognitive, social cognitive, and institutional systems involved in the decision-making processes that affect societal cooperation and governance, especially in the domains of sustainability, resilience (adaptation), and societal dilemmas. I use both laboratory and field (e.g., case study, interview) methods to investigate three inter-related topics:

- How do people create and make decisions about governance and public policies, and what motivates people to cooperate to solve difficult societal problems?
- How do democracies function, and how can democratic systems be improved? This includes co-production (e.g., multi-stakeholder partnership, self-governance, shared decision making), enforcement, social justice, and other elements in various societal sectors/domains.
- How can we promote adaptation, sustainability, and resilience of social-ecological systems?

Selected Areas of Expertise:

- Institutional Psychology | Decision Science/Behavioral Economics | Motivation
- Governance | Institutional Analysis and Design | Ostrom Political Economy
- Societal Cooperation and Conflict (Social Dilemmas)
- Democracy (Societal Self-Governance)
- Social-Ecological Sustainability and Resilience

Research Grants

DeCaro, D.A. (Lead), Janssen, M.A. & Lee, A. (2017-2023). Psychosocial, motivational, and cooperative effects of communication, enforcement, and participatory decision making in resource dilemmas. National Science Foundation: Decision, Risk & Management Sciences. Award #1658608	\$690,551
DeCaro, D.A. (Lead) & Schlager, E. (2018 – 2022). Legal design principles of government-supported adaptation: designing effective decentralization programs in cities and vital water social-ecological systems. National Socio-Environmental Synthesis Center. GSA Project Collaborators: Garmestani, A. (US EPA), Blomquist, B. (IUPUI), Baldwin, E. (Arizona), Frimpong Boamah, E. (Buffalo), Dennis, E. (IUB), García, J. (Universidad de Los Andes), Scown, M. (Lund), Siddiki, S. (Syracuse)	
Storey, A., DeCaro, D.A., Smith, A., Johnson, D., & Heberle, L. (2017-2021). Learning how the community leads: evaluating and informing city-based participatory engagement in West Louisville. Cooperative Consortium for Transdisciplinary Social Justice Research, University of Louisville	\$26,000
Arnold, T., & DeCaro, D.A. (2013). The role of law and publication participation in the evolution of resilient watershed institutions in Kentucky and Tennessee (2013). Multidisciplinary Research Grant, University of Louisville	\$9,902
Dissertation Research Grant (2010), Miami University	\$600
Field Research Grant in Aid (2009), Society for the Psychological Study of Social Issues DeCaro (Lead), Mike Stokes (Western Kentucky University)	\$2,000
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

5-Year Impact Factor¹

Journal Articles

- *Bush, J., DeCaro, M.S., **DeCaro, D.A.** (revise-resubmit). Playing a social dilemma game as an exploratory learning activity before instruction improves conceptual understanding. *Journal of Experimental Psychology: Applied* 3.23
- Janssen, M.A., **DeCaro, D.A.**, & Lee, A. (2022). An agent-based model of the interaction between inequality, trust, and communication in common pool experiments. *The Journal of Artificial Societies and Social Simulations*, 25(4):3. *Doi:* [10.18564/jasss.4922](https://doi.org/10.18564/jasss.4922) 3.51
- DeCaro, D.A.**, DeCaro, M.S., Hotaling, J., & *Appel, R. (2022). Formalizing the fundamental Faustian bargain: inefficacious decision-makers sacrifice their freedom of choice to coercive leaders for economic security. *PLoS ONE* 17(9), e0275265. *Doi:* [10.1371/journal.pone.0275265](https://doi.org/10.1371/journal.pone.0275265) 3.58
- DeCaro, D.A.**, & DeCaro, M.S. (2022). Politically-polarized perceptions of governmental autonomy-support impact internal motivations to comply with U.S. COVID-19 safety guidelines. *Motivation and Emotion*. *doi:* [10.1007/s11031-022-09974-x](https://doi.org/10.1007/s11031-022-09974-x) 3.93
- DeCaro, D.A.**, Janssen, M.A., & Lee, A. (2021). Motivational foundations of communication, voluntary cooperation, and self-governance in a common-pool resource dilemma. *Current Research in Ecological and Social Psychology*, 2:100016. *doi:* [10.1016/j.cresp.2021.100016](https://doi.org/10.1016/j.cresp.2021.100016) n/a
- *Sarr, S., *Hayes, B., & **DeCaro, D.A.** (2021). Applying Ostrom's Institutional Analysis and Development Framework and design principles for co-production to pollution management in Louisville, Kentucky's Rubbertown. *Land Use Policy*, 104, 105383. *doi:* [10.1016/j.landusepol.2021.105383](https://doi.org/10.1016/j.landusepol.2021.105383) 4.15
- DeCaro, D.A.**, DeCaro, M.S., Hotaling, J., & Johnson, J. G. (2020). Procedural and economic utilities in consequentialist choice: trading freedom of choice to minimize financial losses. *Judgment and Decision Making*, 15(4), 517-533. <http://journal.sjdm.org/12/12425/jdm12425.pdf> 3.30
- Weaver, J. P., Chastain, R. J., **DeCaro, D.A.**, & DeCaro, M.S. (2018). Reverse the routine: Problem solving before instruction improves conceptual knowledge in undergraduate physics. *Contemporary Educational Psychology*, 52, 36-47. 4.13
- Allen, C., Birge, H., Angeler, D., Arnold, C., Chaffin, B., **DeCaro, D.A.**, Garmestani, A., & Gunderson, L. (2018). Quantifying uncertainty and tradeoffs in resilience assessments. *Ecology and Society* (22)1:3. *doi:* [10.5751/ES-09920-230103](https://doi.org/10.5751/ES-09920-230103) 4.64
- DeCaro, D.A.**, Arnold, C. A., Frimpong Boamah, E., & Garmestani, A. S. (2017). Understanding and applying principles of social cognition and decision making in adaptive environmental governance. *Ecology and Society* 22(1):33. *doi:* [10.5751/ES-09154-220133](https://doi.org/10.5751/ES-09154-220133) 4.64
- DeCaro, D.A.**, Chaffin, B. C., Schlager, E., Garmestani, A. S., & Ruhl, J.B. (2017). Legal and institutional foundations of adaptive environmental governance. *Ecology and Society* 22(1):32. *doi:* [10.5751/ES-09036-220132](https://doi.org/10.5751/ES-09036-220132) 4.64
- Craig, R. K., Garmestani, A. S., Allen, R. Arnold, C. A., Birgé, H., **DeCaro, D.A.**, Fremier, A. K., Gosnell, H., & Schlager, E. (2017). Balancing stability and flexibility in adaptive governance: An analysis of tools available in U.S. environmental law. *Ecology and* 4.64

¹ 5-Year Impact Factor at time of publication if available (otherwise, longest available period). n/a = no journal rankings yet (e.g., new journal).

* Student

Society 22(2):3. doi: 10.5751/ES-08983-220203

- Cosens, B., Craig, R. K., Hirsh, S., Arnold, C. A., Benson, M. H., DeCaro, D.A., Garmestani, A. S., Gosnell, H. Ruhl, J.B., & Schlager, E. (2017). The role of law in adaptive governance. *Ecology and Society* 22(1):30. doi: 10.5751/ES-08731-220130 4.64
- DeCaro, D.A., Janssen, M. A., & Lee, A. (with Ostrom, E). (2015). Synergistic effects of voting and enforcement on internalized motivation to cooperate in a resource dilemma. *Judgment and Decision Making*, 10(6), 511-537. 2.62
<http://journal.sjdm.org/15/15529/jdm15529.pdf>
- DeCaro, D.A., DeCaro, M.S., & Rittle-Johnson, B. (2015). Achievement motivation and knowledge development during exploratory learning. *Learning and Individual Differences*, 37, 13-26. 2.16
- Arnold, C. A., Green, O. O., DeCaro, D.A., Chase, A., & Ewa, J.-G. (2014). The social-ecological resilience of an eastern urban-suburban watershed: the Anacostia River Basin. *Idaho Law Review*, 51(1), 29-90. 0.36
- DeCaro, D.A., & Stokes, M. K. (2013). Public participation and institutional fit: a social-psychological perspective. *Ecology and Society*, 18(4), 40. doi: 10.5751/ES-05837-180440 4.64
- DeCaro, D.A. (2011). Considering a broader view of power, participation, and social justice in the Ostrom Institutional Analysis Framework. *Grassroots Economic Organizing Newsletter*, 2(9). [online] <http://geo.coop/node/651>. —
- DeCaro, D.A., & Stokes, M. (2008). Social-psychological principles of community-based conservation and conservancy motivation: Attaining goals within an autonomy-supportive environment. *Conservation Biology*, 22(6), 1443-1451. 4.67
- 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. —

Current Special Issues Organized/Participating

DeCaro, D.A., Schlager, E (proposal accepted). State-reinforced transformative and adaptive governance of sustainable social-ecological systems. *Ecology and Society* (anticipated Feb/March 2023)

Invited Contributor: Special Issue Proposal (proposal revise-resubmit). Anderies, J.M., Bennett, E.M., Centeno, M., Constantino, S.M., Krueger, E.H. (organizers), Folke, E., Levin, S.A., Weber, E.U. (handling editors). Governance at Critical Junctures: Intervention Timing, Scales, and Values. *The Proceedings of the National Academy of Sciences*

- DeCaro, D.A., Schlager, E., Anderies, M., Dennis, E., Folke, C., Frimpong-Boamah, E., Milkoreit, M., Moore, M-L., Victor, D. State-Reinforced Self-Governance Framework for adaptive governance of complex social-ecological dilemmas

Book Chapters

- Storey, A., Johnson, D., Clemons, V., Smith, A., DeCaro, D.A., & Heberle, L. (in press). Becoming Resilient: Exploring Community Well-being through Politicized Participation in Louisville, KY. In Social (In)equality, Community Well-being, and Quality of Life, M.R. Islam, P. Kraeger, and R. Phillips, eds. —
- 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

- 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*.

Creative Research Tools

DeCaro, D.A. (2021, January 13). **Codebook for Analyzing Content and Function of Communication in Social-Ecological Dilemma Experiments (1.0)**. *SocArXiv*. <https://doi.org/10.31235/osf.io/856hm>

DeCaro, D.A., Schlager, E., Frimpong Boamah, E. (in prep). State Reinforced Self-Governance Codebook (1st Edition): A Methodology for Identifying Adaptive Capacity of Governance Actors and their Collective Action Processes in Polycentric Systems

Notable Consultation: Public Policy

- **Survey Development & Analysis** (Nov 2021 – Present). Green Team, Louisville Metro Government
- **Public Engagement**
 - (Nov 2021). Louisville Forward Staff Meeting, Louisville Metro Government
 - (Apr 2019). 100 Resilient Cities, Louisville Metro Government
- **Community Greenspace/Urban Ag** (2019 – Present). Food In Neighborhoods, Urban Ag Coalition

Notable Media Coverage: Podcasts, Panel Discussions, & Interviews

- **Why It Seems Harder for Us All to Get Along** (Feb 11, 2022). *In Conversation*, 89.3 WFPL
- **Participatory Governance** (Jan 11, 2022). *In Common Podcast*, International Association for the Study of the Commons
- **Societal Cooperation & Cooperative Experiments** (June 13, 2017). *UofL Today with Mark Hebert*
- **Research Methods to Study Voting & Enforcement Effects in Cooperative Resource Experiments** (July 26, 2016). *The Methodology for Psychology Podcast* (archived on DeCaro’s website)

Presentations

Colloquia & Invited Talks

Smith, A., & **DeCaro, D.A.** (2020, August 11). Evaluating P2 to Address Historic Disenfranchisement and Empower Communities. *Webinar, International Association for Public Participation (IAP2)*.

DeCaro, D.A. (2020, October 26). The role of political affiliation and fundamental needs in Cooperation with U.S. COVID-19 Safety Guidelines. *Webinar Panel Series, International Association for the Study of the Commons*. https://youtu.be/wDvm_Wu5YZo

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. (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, & Trainings

- DeCaro, D.A., & Smith, A.** (2021, Nov 30). Evaluating Public Participation to Address Historic Disenfranchisement and Empower Communities. Webinar: Accreditation Training. *Annual Meeting of the Kentucky Psychological Association.*
- DeCaro, D.A., & Schlager, E.** (organizers). (2019, June 20). State-Reinforced Self-Governance: Outlining the Future of Self-Governance Research and Policy in Highly Regulated Polycentric Cities and Metropolitan Systems. Symposium: *Workshop on the Ostrom Workshop (WOW6), Indiana University – Bloomington.*

Conference Talks

- Bush, J., DeCaro, M.S., & **DeCaro, D.A.** (2020, December). Exploring Prior to Instruction Improves Conceptual Understanding and Cooperation in a Social Dilemma Game. *Annual Meeting of the Southern Society for Psychology and Philosophy, Louisville, KY.*
- Velic, L., DeCaro, M.S., & **DeCaro, D.A.** (2020, December; cancelled due to pandemic). Understanding How Communication Improves Cooperation in Social Dilemmas. *Annual Meeting of the Southern Society for Psychology and Philosophy, Louisville, KY*
- DeCaro, D.A., Smith, A., Heberle, L.C., Storey, A., & Johnson, D.** (2019, Sept 5). Evaluating Public Participation to Address Historic Disenfranchisement and Empower Communities. *International Association for Public Participation (IAP2), North American Conference.*
- 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, DA.** (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

- Bush, J., DeCaro, M.S., & DeCaro, D.A.** (2022, May). Exploring social dilemma games before instruction improves interest, enjoyment, and conceptual understanding. Poster submitted to the *Association for Psychological Science*, Chicago, IL.
- Graci, A., DeCaro, D.A., & DeCaro, M.S.** (2022, May). Safeguards to ensure procedural fairness and security during democratic deliberation improve cooperation in politically-polarized moral dilemmas. Poster submitted to the *Association for Psychological Science*, Chicago, IL.
- Johnson, D., Smith, A., Storey, A., DeCaro, D.A., Heberle, L., & Clemons, V.** (2021, April) Statues as a reflection of resilient communities? A case study on the Louisville Metro Public Arts and Monuments Advisory Committee (PAMAC) process 2018-2020. *Kentucky Public Health Association*
- Johnson, D., Storey, A., Smith, A., DeCaro, D.A., & Heberle, L.** (2019, November). 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). *3rd 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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| <p>Challenges to and Opportunities for Developing Resilience in Rapidly Growing Urban Corridors in Semi-Arid Regions
 Concepts for Advancing Sustainable Urban Systems (SUS) Research Networks
 National Science Foundation (NSF)
 - Patrick Bixler (UT-Austin)</p> | <p>2019 - Present</p> |
| <p>Decentralization and Government-Supported Adaptation
 National Socio-Environmental Synthesis Center (SESYNC)
 - Daniel DeCaro, Edella Schlager (University of Arizona)</p> | <p>2018 - Present</p> |
| <p>Coordinating and Advancing Analytical Approaches for Policy Design
 Research Coordination Network (RCN), National Science Foundation (NSF)
 - Saba Siddiki (Syracuse), Charles Schweik (UMASS-Amherst)</p> | <p>2019 - 2022</p> |
| <p>Adaptive Water Governance Project
 National Socio-Environmental Synthesis Center (SESYNC)
 - Barbara Cosens (University of Idaho), Lance Gunderson (Emory)</p> | <p>2013-2018</p> |
| <p>Contextualizing Compliance
 San Diego State University, Indiana University-Purdue University
 - Salvador Espinosa (SDSU), Saba Siddiki (IUPUI)</p> | <p>2015-2018</p> |

Teaching & Mentorship Experience

Graduate Courses

Introduction to Sustainability Fall 2015, 16, 20
Dept of Urban & Public Affairs, University of Louisville
– Created course offering (M.A. Sustainability Degree)

Behavioral Dimensions of Sustainability Spring 2014 – 16
Dept of Urban & Public Affairs, University of Louisville
– Created course offering (M.A. Sustainability Degree)

Sustainable Social-Ecological Systems Fall 2013 – Present
Dept of Urban & Public Affairs, University of Louisville
– Created course offering (M.A. Sustainability Degree)

Undergraduate Courses

Reasoning and Decision Making (Psyc 314) Spring 2019, 21
Dept of Psychological & Brain Sciences, University of Louisville
– Created course offering

Behavioral Dimensions of Sustainability Spring 2018, 20, 22
Dept of Urban & Public Affairs, University of Louisville
– Created course offering (B.A. Sustainability Degree)

Sustainable Societal Systems Fall 2018, 19, 21
Dept of Urban & Public Affairs, University of Louisville
– Created course offering (B.A. Sustainability Degree)

Quantitative Methods Spring 2013-16
Dept of Psychological & Brain Sciences, University of Louisville

Quantitative Methods (Lab) 2005, 07, 08
Dept of Psychology, Miami University

Cognitive Psychology 2009
Dept of Psychology, Miami University

Independent Research

GRADUATE:

PSYC 604. Reading/Introduction to Lab. Experimental Psychology, UofL
• 2 students (Summer 2019); 4 students (Summer 2020 - 2021)

PSYC 605. Decision Science, UofL
• 2 students (Fall 2019), 4 (Fall 20), 5 (Spring 21), 4 (Fall 21-Present)

PLAN 632. Integrative Sustainability Planning. Urban & Public Affairs, UofL
• 1 student (2017-2018)

UNDERGRADUATE:

SUST 401 & PSYC 491/492/495/496: Environmental Governance & Sustainability, Environmental Psychology, Decision Science (typical topics)

- UofL: 8 students (2022), 6 (21), 3 (20), 6 (19); 8 (18); 3 (17); 3 (16); 2 (15); 1 (14)
- Indiana University-Bloomington: 2 students (2012)
- Miami University: 5 students (2006-2010)

Summer Research Opportunity Program (UofL). 10-week summer research mentorship
• Lianda Velic (summer 2019) Psychological & Brain Sciences

PhD Mentor

Urban and Public affairs

- Amma Adusei (2019-Present) *Neighborhood Self-Governance and Revitalization*
- Mary (Abby) Rudolph (2020-Present) *State-Reinforced Urban Agriculture*
- Mehrsa Ahmadpour (2021-Present) *State-Reinforced Water Governance*

Experimental Psychology

- Rachel Appel (2019-Present), PhD Experimental Psychology (UofL)
- Jason Bush (2019-Present, Co-Chair), PhD Experimental Psychology (UofL)
- Alanea Graci (2020-Present), PhD Experimental Psychology (UofL)
- Sarah French (2021-Present), PhD Experimental Psychology (UofL)

Chaired Theses & Dissertations (Ongoing, Completed)

MASTERS:

- Mary (Abby) Rudolph, PhD UPA
- Amma Adusei (ongoing), PhD UPA
- Alanea Graci (2022), M.A. Experimental Psychology (Masters Portfolio)
- Rachel Appel (2021), M.A. Experimental Psychology (Masters Portfolio)
- Jason Bush (2021), M.A. Experimental Psychology (Masters Portfolio)
- Willow Dietsch (2018), M.A. Interdisciplinary Studies: Concentration Sustainability, UofL
- Betsy Ruhe (2017), M.A. Interdisciplinary Studies: Concentration Sustainability, UofL, [First graduate of the degree program.](#)

UNDERGRADUATE:

- Devin Flener (ongoing, anticipated Spring 2023). Psychology Honors and University Honors
- Jason Bush (2019). Psychology Honors and University Honors

Committee Member

DISSERTATIONS:

Brent Fryrear, PhD UPA (ongoing)

Derek McClellan, PhD Experimental Psychology (ongoing)

Marie Entezam, PhD UPA (ongoing)

Shahbaz Altaf, PhD UPA (defense Nov 14, 2021)

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)

Glyptus Grider Jones, PhD UPA (January 7, 2020)

Ekrumul Islam, PhD UPA (defense August 7, 2020)

THESES:

Olivia Kaiser, Undergraduate Thesis (ongoing, anticipated Oct 24, 2022)

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

Student Awards

Rachel Appel. Max Planck Summer Institute on Bounded Rationality
Berlin, Germany. Full expenses paid (except Flight)

2020/2021

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

Teaching

<i>Student Champion Award, Reasoning & Decision Making (PSYC 314)</i> University of Louisville	2020-2021
<i>Faculty Favorite Award, Introduction to Sustainability</i> Delphi Center for Teaching and Learning University of Louisville	Fall 2020
<i>Faculty Favorite Award, Quantitative Methods in Psychology</i> Delphi Center for Teaching and Learning University of Louisville	2014-2015
<i>Graduate (Miami University)</i> Graduate Student Achievement Award, Miami University Graduate Assistantship, Miami University	2009, 2010 2005-2010
<i>Undergraduate (Western Kentucky University)</i> Ogden Trustees' Award, Graduating senior with highest cumulative GPA Senior Psychological Sciences Academic Achievement Award Excellence in Philosophical Scholarship Award Jagers-Cave Academic Scholarship (Full Tuition Waiver) College Heights Foundation Award Honors Program Tuition Scholarship President's Scholar Dean's Scholar Kentucky Education Excellence Scholarship National Dean's List	2005 2005 2005 2003-2004 2002, 2004 2001-2005 2001-2005 2001-2005 2001-2005 2001-2005

Leadership and Service

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)

2017-2021

Sustainability Council, University of Louisville

Co-Organizer, Sustainability Roundtable

2016-2019

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

Cardinal Edge

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

European Review of 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

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