

**Lukas K. Sotola**

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Google Scholar Profile: <https://scholar.google.com/citations?user=XY5gtkMAAAAJ&hl=en&oi=ao>

**Education**

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**Ph.D. in Social Psychology***Aug 2018-May 2024*

Iowa State University, *Ames, IA*

Major: Social Psychology

Dissertation Title: "A Syndrome Known as System

Justification: On the Palliative Effect of

Believing Society Is Fair"

Major Professor: Marcus Credé

**Certificate in Quantitative Psychology***Aug 2018-May 2023*

Iowa State University, *Ames, IA*

Major: Quantitative Psychology

**M.S. in General/Experimental Psychology***Aug 2016-Dec 2018*

Western Illinois University, *Macomb, IL*

Major: Experimental Psychology

Thesis Title: "Political Ideology and Voting Behavior as a

Function of Threat and Political View Salience"

Major Professor: Kristine M. Kelly

**B.A. in Psychology***Sept 2012- May 2016*

University at Albany, State University of New York, *Albany, NY*

Major: Psychology

Honors Thesis Title: "The Effects of System Justification

and Reminders of Ingroup Disadvantage on Just

World Beliefs"

Major Professor: Anna Reiman

## Research Interests

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- Measurement issues
- Replicability
- Meta-psychology
- Psychological predictors of political ideology
- System justifying beliefs
- Affective polarization

## Publications

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### Refereed Journal Articles

(Total: 8)

8. Credé, M., & Sotola, L. K. (2024). All is well that replicates well: The replicability of reported moderation and interaction effects in leading organizational sciences journals. *Journal of Applied Psychology, 109*(10), 1659–1667. <https://doi.org/10.1037/apl0001197>
7. Sotola, L. K., & Credé, M., (2023). Estimating the replicability of statistically significant moderation effects in personality research using z-curve analysis. *Journal of Research in Personality, 107*(1), 104435. <https://doi.org/10.1016/j.jrp.2023.104435>
6. Sotola, L. K. (2023). How can I study from below, that which is above? Comparing replicability estimated by z-curve to real large-scale replication attempts. *Meta-Psychology, 7*. <https://doi.org/10.15626/MP.2022.3299>
5. Sotola, L. K., & Credé, M. (2022). On the predicted replicability of two decades of experimental research on system justification: A z-curve analysis. *European Journal of Social Psychology, 52*, 895-909. <https://doi.org/10.1002/ejsp.2858>
4. Sotola, L. K. (2022). Garbage in, garbage out? Evaluating the evidentiary value of published meta-analyses using z-curve analysis. *Collabra: Psychology, 8*(1), 32571. <https://doi.org/10.1525/collabra.32571>
3. Sotola, L. K., & Credé, M. (2021). Regarding class quizzes: A meta-analytic synthesis of quasi-experimental studies on the relationship between frequent low-stakes testing and class performance. *Educational Psychology Review, 33*, 407-426. <https://doi.org/10.1007/s10648-020-09563-9>
2. Miller, A., Credé, M., Sotola, L. K. (2020). Should research experience be used for selection into graduate school: A discussion and meta-analytic synthesis of the available evidence. *International Journal of Selection and Assessment, 29*, 19-28. <https://doi.org/10.1111/ijsa.12312>

1. Brady, L.L., Credé, M., **Sotola, L. K.**, & Tynan, M. (2019). Meta-analysis on positive psychology correlates of sales performance. *Research on Occupational Stress and Well-Being*, 17, 91-115. <https://doi.org/10.1108/S1479-355520190000017005>

#### **Book Chapters and Encyclopedia Entries**

**(Total: 4)**

4. **Sotola, L. K.** (2024). System justification. In Shackelford, T., (Ed.), *Encyclopedia of Religious Psychology and Behavior*. New York: Springer.
3. **Sotola, L. K.** (2019). Political affiliation. In Shackelford, T. K., Weekes-Shackelford, V. (Eds.), *Encyclopedia of Evolutionary Psychological Science*. New York: Springer.
2. **Sotola, L. K.**, & Kelly, K. M. (2017). Need to belong. In Shackelford, T. K., Weekes-Shackelford, V. (Eds.), *Encyclopedia of Personality and Individual Differences*. New York: Springer.
1. **Sotola, L. K.** (2017). Disposable soma theory. In Shackelford, T. K., Weekes-Shackelford, V. (Eds.), *Encyclopedia of Evolutionary Psychological Science*. New York: Springer

#### **In Preparation and Under Review**

**(Total: 8)**

- Sotola, L. K.** (2024). *On the use of difference scores to measure affective polarization: A systematic review, critique, and proposed alternative* [Manuscript submitted to *Psychological Methods*]. Department of Psychology, Pace University.
- Sotola, L. K.** (2024). *The palliative association between system justification and well-being does not differ depending on people's membership in marginalized groups: A meta-analytic review and z-curve analysis of relevant studies* [Manuscript in preparation for submission to *Political Psychology*]. Department of Psychology, Pace University.
- Nagy, T., Hergert, J., Elsherif, M., Wallrich, L., Schmidt, K., Waltzer, T., Payne, J. W., Gjonjeska, B., Steetahul, Y., Wang, Y. A., Scharfenberg, D., Tyson, G., Yang, Y. F., Skvortsova, A., Alarie, S., Graves, K., **Sotola, L. K.**, Moreau, D., & Rubínová, E. (2024). *Bestiary for questionable research practices in psychology* [Manuscript given a revise and resubmit decision at *Advances in Methods and Practices in Psychological Science*].
- Sotola, L. K.**, Kim, E. L., Kim, H. S., & Wasinger, G. (2024). *The association between physical activity and academic performance among college students tested three ways: A meta-analysis, test of a curvilinear association, and a test of a necessary conditions association* [Manuscript in preparation]. Department of Psychology, Pace University.

**Sotola, L. K.** (2024). *The replication crisis in psychology was foreseeable and foreseen: A review of methodological issues raised before 1976 that showed replicability problems in research on psychology decades before the replication crisis* [Manuscript in preparation]. Department of Psychology, Pace University.

Wasinger, G., Costabile, K. A., **Sotola, L. K.** (2024). *The use of polynomial regression in narrative identity research* [Manuscript in preparation]. Department of Psychology, Iowa State University.

Kim, H. S., **Sotola, L. K.**, Kim, M., Wasinger, G. M., Kim, E. L., Diaz, S., England, A., Phillips, L. A. (2024). *Habit instigation vs. execution related behavior change techniques in mobile interventions for physical activity: A systematic review and z-curve analysis* [Manuscript in preparation]. Department of Psychology, Iowa State University.

**Sotola, L. K.** (2024). *The incremental validity of domain-specific measures of system justification* [Manuscript in preparation]. Department of Psychology, Pace University.

## **Conference Presentations**

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### **Oral Presentations**

**Sotola, L. K.**, & Mathes, E. W. (2018, April). *Our lord and savior Donald Trump: System justification and religiosity*. Paper talk presented at the 2018 annual meeting of the Midwestern Psychological Association, Chicago.

### **Poster Presentations**

**Sotola, L. K.** (2024). *The palliative effect of system justification: a systematic review*. Poster accepted for presentation at the 2024 annual meeting of the Midwestern Psychological Association in Chicago, Illinois.

**Sotola, L. K.** (2023). *The incremental validity of domain-specific measures of system justification*. Poster presented at the 2023 annual meeting of the Society for Personality and Social Psychology in Atlanta, Georgia.

**Sotola, L. K.** (2022). *Garbage in, garbage out? Evaluating the evidentiary value of published meta-analyses using z-curve analysis*. Poster presented at the 2022 annual meeting of the Midwestern Psychological Association in Chicago, Illinois.

- Sotola, L. K., & Credé, M.** (2020). *Regarding class quizzes: A meta-analytic synthesis of studies on the relationship between frequent low-stakes testing and class performance*. Poster accepted for presentation at the 2020 annual meeting of the Society for Industrial and Organizational Psychology, Austin, which was canceled due to the COVID-19 pandemic.
- Sotola, L. K., & Credé, M.** (2020, February 28<sup>th</sup>). *Meta-analysis and z-curve analysis of system justification relevant research*. Poster presented at the annual meeting of the 2020 Society for Personality and Social Psychology, New Orleans.
- Sotola, L. K., & Kelly, K. M.** (2019a, April). *A worldview of disillusion: Mortality salience decreases intention to vote*. Poster presented at the 2019 annual meeting of the Midwestern Psychological Association, Chicago.
- Sotola, L. K., & Kelly, K. M.** (2019b, April). *Thinking of comfort food reduces system justification in conservatives*. Poster presented at the 2019 annual meeting of the Midwestern Psychological Association, Chicago.
- Sotola, L. K., Newheiser, A., & DeMarco, T.** (2017, April). *Does motivation to rationalize the status quo make people more receptive to sexist humor?* Poster presented at the 2017 annual meeting of the Midwestern Psychological Association, Chicago.

## **News Coverage**

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- Iowa State University (2020, September 17). Study shows quizzes improve academic performance. *LAS News*. <https://news.las.iastate.edu/2020/09/17/study-shows-quizzes-improve-academic-performance/>
- Khan, S. (2020, September 19). Quizzes improve academic performance: Study. *The Siasat Daily*. <https://www.siasat.com/quizzes-improve-academic-performance-study-1977612/>
- Study finds quizzes improve academic performance. (2020, September 19). *India Education News*. <https://www.newkerala.com/news/2020/166305.htm>
- Wai, J. (2020, October 21). What the Research Says On Tests and Test-Optional Policies In College Admissions. *Forbes*. <https://www.forbes.com/sites/jonathanwai/2020/10/21/what-the-research-says-on-tests-and-test-optional-policies-in-college-admissions/?ref=altdnt&sh=26c0bad033db>

### **Invited Panels**

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1. PSYCH 211: Career Opportunities in Psychology, Ames, IA (April 25<sup>th</sup>, 2023; April 26<sup>th</sup>, 2023).
  - a. Gave guidance on applying to graduate school and pursuing a graduate degree to undergraduates.
2. PSYCH 211: Career Opportunities in Psychology, Ames, IA (December 1<sup>st</sup>, 2021).
  - a. Gave guidance on applying to graduate school and pursuing a graduate degree to undergraduates.

### **Invited Talks**

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1. Colloquium: Western Illinois University Department of Psychology, Macomb, IL (March 30<sup>th</sup>, 2023).
  - a. Title of Talk: “Tracking vapor trails: Estimating replicability and the presence of questionable research practices in psychological science using only previously published research.”

### **Teaching Experience**

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#### **Instructor of Record**

*September 2024-December 2024*

**Instructor, PSY 304 Social Psychology, Pace University, Pleasantville**

*September 2024-December 2024*

**Instructor, PSY 205 Statistics for Psychology and Allied Fields, Pace University, Pleasantville**

*May 2023-July 2023*

**Co-instructor, Psychological Measurement I, Iowa State University**

*May 2022-June 2022*

**Co-instructor, Research Design and Methodology, Iowa State University**

*August 2021-December 2021*

**Co-instructor, Research Methods in Psychology, Iowa State University**

*June 2021-August 2021*

**Co-instructor, Research Methods in Psychology, Iowa State University**

**Guest Lecturer***Fall 2023***Cognitive Psychology, Iowa State University***Fall 2022***Foundations of Behavioral Research, Iowa State University***Spring 2021***Social Psychology, Iowa State University***Fall 2019***Research Design and Methodology, Iowa State University****Teaching Assistant***August 2023-May 2024***Psychological Measurement I, Iowa State University***August 2023-December 2023***Cognitive Psychology, Iowa State University***August 2022-May 2023***Psychological Measurement I, Iowa State University***August 2021-May 2022***Research Methods in Psychology, Iowa State University***August 2020-May 2021***Psychological Measurement I, Iowa State University***August 2019-May 2020***Research Design and Methodology, Iowa State University***August 2017-May 2018***Advanced Psychological Statistics, Western Illinois University***August 2016-May 2017***Introduction to Gerontology, Western Illinois University**

## **Mentoring Experience**

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*June 2021-August 2021, August 2021-December 2021*

**Research Methods in Psychology**—small course in which I mentored each student individually through an independent project where they conceived of a research question, developed a method to investigate it, analyzed the data, and wrote up the paper in APA style. Co-instructor for the course two times (listed above), and teaching assistant for it four times.

*September 2024-May 2025*

**Mentor in the Transfer Student Faculty Mentoring Program**—mentor for the transfer student Victoria Scuse, psychology major and neuroscience minor.

## **Awards and Honors**

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*Spring 2024*

**Teaching Excellence Award, Graduate College of Iowa State University**

*Spring 2023*

**Teaching Excellence Award, Social Area, Psychology Department, Iowa State University**

*Fall 2022*

**Research Excellence Award, Graduate College of Iowa State University**

*Spring 2022*

**Research Excellence Award, Iowa State University Department of Psychology**

*Spring 2021*

**Outstanding Article Award, Iowa State University**

- “Regarding class quizzes: A meta-analytic synthesis of quasi-experimental studies on the relationship between frequent low-stakes testing and class performance.”

*Fall 2018*

**Harold V. Gaskill Fellowship**

*Spring 2017*

**Second Place Research Poster, Western Illinois University Graduate Research Conference**

- “The Effects of System Justification and Reminders of Ingroup Disadvantage on Just World Beliefs”



## **Service**

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### **Professional Service**

- Reviewer: *Journal of Economics Education*
- Reviewer: *SAGE Open*
- Reviewer: *Basic and Applied Social Psychology*
- Reviewer: *PeerJ*
- Reviewer: *Meta-Psychology*
- Reviewer: *International Journal of Testing and Assessment*

### **Institutional Service**

- Graduate Students of Psychology, Iowa State University: Secretary, Fall 2022-Spring 2023
- Graduate Students of Psychology, Iowa State University: Social Area Representative, Fall 2021-Spring 2022
- Office of Institutional Research and Planning, Western Illinois University: Research Assistant, Fall 2017-Spring 2018

## **Statistical Experience**

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- **SPSS:** t-tests, correlation, chi-square test, ANOVAs, logistic and linear regression, multivariate regression, mediation, moderation, polynomial regression, polyvariate regression, principle components analysis, exploratory factor analysis
- **MPlus:** structural equation modeling, latent class analysis, growth curve analysis, power analysis
- **R:** data cleaning, meta-analysis, z-curve analysis, logistic and linear regression, power analysis, structural equation modeling, confirmatory factor analysis
- **SAS:** regression, multivariate regression, confirmatory factor analysis, path analysis, structural equation modeling, missing data imputation

## **Research Grants**

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**Psychology Department Thesis/Dissertation Completion Grant** for Study 3 of my dissertation by Iowa State University, \$1,500 (Spring 2023)

**Professional Advancement Grant** for the annual meeting of the Society for Personality and Social Psychology, by Iowa State University, \$200 (Spring 2023)

**Professional Advancement Grant**, for the annual meeting of the Society for Personality and Social Psychology, by Iowa State University, \$200 (Spring 2020)

**Graduate Student Research and Professional Development Grant**, for master's thesis project, by Western Illinois University, \$400 (Spring 2019)

**Graduate Student Research and Professional Development Grant**, for the annual meeting of the Midwestern Psychological Association, Western Illinois University, \$400 (Spring 2018)

### **Groups and Organizations**

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**Society for Personality and Social Psychology**

**Society for the Improvement of Psychological Science**

**Midwestern Psychological Association**

### **References**

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**Marcus Credé**

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**Alison Phillips**

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Department of Psychology  
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**Patrick Armstrong**

Associate Professor  
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