Address: 3640 Colonel Glenn Highway, Dayton, OH 45435
Telephone: (937) 775-3519
E-mail: ion.juvina@wright.edu

Education and training

2019-2020 University of Michigan, Ann Arbor
- Professional development leave (sabbatical)
- The Soar cognitive architecture and the Common Model of cognition

July 2012 Max Planck Institute for Human Development, Berlin, Germany
- Summer Institute on Bounded Rationality – Foundations of an Interdisciplinary Decision Theory

2006-2009 Carnegie Mellon University, Psychology Department
- Post-doctoral training in Cognitive Neuroscience and
- Computational Cognitive Modeling

Aug 2008 University of Michigan, Functional MRI Lab
- Summer course in fMRI

2002-2006 Utrecht University, Institute of Information and Computing Sciences
- Top tier university in Europe
- Ph.D. in Information Science
- Emphasis in Cognitive Modeling and Human-Computer Interaction
- Dissertation: "Development of a cognitive model for navigating the Web"

1990-1995 University of Bucharest, Psychology Department
- Combined Bachelor's and Master's degree in Psychology
- Emphasis in Cognitive Science and Human Factors
- Minor in Mathematics and Computer Science
- Thesis: "Psychological analysis of railway events"

Research experience (see list of publications on page 11)

2018- Wright State University, Department of Psychology
- Associate Professor
- Adaptive strategic thinking and executive control of cognition and affect (ASTECCA) Lab
- Environmental cognition and learning (ECOLE) Lab

2012-2018 Wright State University, Department of Psychology

- Assistant Professor
- Adaptive strategic thinking and executive control of cognition and affect

2010-2012 Carnegie Mellon University, Psychology Department
- Research Psychologist
- Behavioral Game Theory and Cognitive Modeling

2006-2009 Carnegie Mellon University, Psychology Department
- Post-Doctoral Research Associate
- ACT-R theory: Modeling and Experimentation

2002-2006 Utrecht University, Institute of Information and Computing Sciences
- Research Assistant
- Cognitive Modeling and Human-Computer Interaction
- Coordinated research internships of under/graduate students

1998-2002 Romanian Academy, Institute of Psychology, Bucharest
- Research Assistant and Research Scientist
- Cognitive Psychology and E-learning

Teaching experience

2023-present Wright State University, Department of Computer Science and Engineering
- Secondary appointment as graduate faculty

2013-present Wright State University, Department of Psychology
Human Factors & Industrial/Organizational Psychology Ph.D. Program
- PSY9030: Computational cognitive modeling – graduate
- PSY7020: Research design and quantitative methods – graduate
- PSY8260: Decision making – graduate
- PSY8430: Ergonomics – graduate
- PSY8000: Graduate HF/IO Seminar (Brown Bag) – graduate
- PSY3210: Cognition and Learning – undergraduate
- PSY4280: Psychological Game Theory Capstone – undergraduate
- PSY4100: Mind and Environment Capstone – undergraduate
- PSY3600: Human Factors Psychology – undergraduate (Fall24)

Interdisciplinary Applied Science and Mathematics Ph.D. Program
- Graduate faculty and program committee member

2007-2008 Carnegie Mellon University, Psychology Department
- ACT-R summer school – graduate and postgraduate level

2002-2006 Utrecht University, Institute of Information and Computing Sciences
- Scientific Research Methods – undergraduate level

- Usability Evaluation Methods – masters level
- Advanced Research Methods – masters level

1998-2000 University of Bucharest, Psychology Department
- Psychology of Work – undergraduate level

1996-1998 Polytechnic University of Bucharest
- Industrial Psychology – undergraduate level

Industry and business experience

2019-present Kairos Research, Dayton, OH
- Consultant
- Data science, artificial intelligence, experiment design

2000-2002 Atlas Consel, Bucharest
- Consultancy Manager
- Consultancy projects in Human Resources and Management

1998-2000 HRD – Human Resources Development company, Bucharest
- Consultant
- Consultancy projects in Human Resources and Management

1996-1998 Ministry of Interior, Research and Prognosis Unit, Bucharest
- Psychologist
- Employee opinion surveys

1995-1996 Institute of Aviation Medicine, Bucharest
- Psychologist
- Administration of psychological tests
- Selection of Pilots and Air Traffic Controllers

1994-1995 Romanian Railway Authority, Human Factors Department
- Data-entry Operator and Field Research Assistant
- Ergonomics, Job Analysis, Human Reliability

Invited talks

2018 U.S. Air Force Research Laboratory
- "Strategic thinking: theoretical, empirical, and computational explorations"

2016 ACT-R Postgraduate Summer School
- "Learning to trust and trusting to learn"

2012 Wright State University, College of Science and Mathematics, Department

of Psychology
- "From cognitive strategies to strategic thinking: empirical and computational explorations"

2012 State University of New York – Oswego
- "Generalization of learning in games of strategic interaction"

2012 Penn State University, College of Information Sciences and Technologies, Applied Cognition Lab
- "Models of strategic interaction"

2011 Arizona State University, Department of Technology and Innovation
- "Computational Cognitive Modeling as a Method for Theory Building and Application Design"

2010 Romanian Academy of Science
- "Developing human-like virtual players for educational games using the ACT-R cognitive architecture"

2009 Carnegie Mellon University, Department of Social and Decision Sciences
- "The paradoxical nature of cognitive control: Empirical and computational explorations"

2008 Wichita State University, Psychology Department
- "Mechanisms of repetition suppression"

2007 Romanian Computer-Human Interaction (RoCHI) Conference
- "IONS-VIP: A cognitive model for navigating the Web via screen readers" - keynote lecture

2006 University of Pittsburgh
Personalized Adaptive Web Systems (PAWS) Group
- "Model-based highlighting to support selective reading on the Web"

Advising and mentoring

- Postdoctoral researchers:
  - Othalia Larue, Ph.D. (2014-2019)
  - Jeff Nador, Ph.D. (2016-2020, co-advised with Assaf Harel)

- Graduate students at Wright State University (HFIO or IASM program):
  - Advising and co-advising:
    - Taleri Hammack (co-advised with John Flach; grad. S22), Lori Mahoney (IASM, co-advised with Joe Houpt; grad. F21), Cara Zinn (co-advised with Joe Houpt; grad. S21), Alexander Hough (grad. S21), Mohd Saif Usmani (co-advised with Nasser Kashou;

grad. F15), Gary Douglas (did not graduate), Kevin O'Neill (grad. F20), Peter Crowe (grad. S20), Joseph Glavan (co-advised with Joe Houpt, graduated F23), Preston Menke, Jarean Carson, Michael Collins, Joshua Wong, Afra Moharrami Nasirabadi.

- Dissertation committee:
  - Joseph Borders (2023-present), Jasmine Duran (2023-present), Jeannie Nigam (2022 - present), Claire Shah (2022-present), Morgan Borders (2021-present), Birken Noesen (June 2021-present), Julan Al-Yassin (IASM, 2021 - present), Abraham Haskins, Clayton Rothwell, Kyle Behymer, Beth Peyton, Andrew Hampton, Elizabeth Frost.
- Qualifying exam committee:
  - Riley Schwanz (2023), Alexandria Bohn (2023-present), Justin Morgan (2023-present), William Stalker (2023-present), Bincy Davis (2022-2023), Sarah Sinclair-Amend (2023), Claire Shah, Rashedul Islam, Cara Zinn, Lori Mahoney, Abraham Haskins, Joseph Glavan, Birken Noesen, Andrew Hampton, Jordan Haggit, Taleri Hammack
- Master thesis committee:
  - Chloe Bell (2024-present), Andrew Tangeman (2023-present), Tyler Vonderhaar (2022-present), Alexandria Bohn (2022-2023), Riley Schwanz (2022-2023), William Stalker (2021-2022), Nicholas Kelling (2021-present), Alec Drabish (2021-2022), Justin Morgan (2019-2022), Meagan Rose Newman, Truman Gore, Jennifer Baumgartner, Elisabeth Fox, Joseph Glavan, Claire Shah, August Capiola, Abraham Haskins.

- Undergraduate research internships at Wright State University:
  - Kristin Marie Kindell, Erin Harmon, Collin Moser (honors), John Foster, Tesla Gray, Cody Otten, Michael Gordon Collins, Aneesh Chaudhry, Albert Simmons, Steven Sherer
- Miscellanea:
  - David Cades, Andrea Heiberg, and Katja Mehlhorn:
    - supervised their modeling projects for the ACT-R summer school
  - Arnaud Lek:
    - co-advised his Master thesis at Utrecht University
  - Poyan Karbor, Brian Pauw, Ellert van den Broek, Vincent van der Linden, Koen Buurman, Martijn Abbing, and Richard van Yperen:
    - supervised their undergraduate research internships at Utrecht University
  - Matias Janvin
    - Winner of the Norwegian Contest for Young Scientists 2011 with a paper on Behavioral Game Theory

Grant support

- 2023-2025: Ocular and Physio-Temporal Indicators of Cognitive State (OPTICS)
  - Funding source: Ohio Federal Research Network

  - Prime: Kairos Research
  - Role: PI on subcontract to Wright State University (WSU)
  - Funds to WSU: $200,000
- Summer 2023: Repperger Internship for graduate student Preston Menke.
  - Funding source: Air Force Research Laboratory
  - Role: Faculty advisor
  - Effort (Preston Menke): 100% of 12 weeks
  - Total funds: $12,000
- 2022-2024: Optimization of Human Capital (OHC)
  - Funding source: AFRL
  - Prime: Kairos Research
  - Role: Consultant
- 2021-2022: Leveraging Insights from Collective Human Expertise to Predict Important Nodes (LINCHPIN)
  - Funding source: IARPA
  - Prime: Kairos Research
  - Role: Consultant
- 2020-2022: Explainable Machine Reasoning through the Application of Linked Data (EMERALD)
  - Funding source: AFRL
  - Prime: Kairos Research
  - Role: Consultant
- 2020-2022: Joint DoD and WSU Center of Neuroimaging and Neuro-Evaluation of Cognitive Technologies (CONNECT)
  - Granting Agency: Air Force Office of Scientific Research (FOA-AFRL-AFOSR-2019-0001)
  - Role: Co-PI
  - All Co-PIs: Assaf Harel (Wright State University), Ion Juvina (Wright State University), Nicholas Reo (Wright State University)
  - Total Cost: $1,502,643; Cost for 2020-2022: $225,456
- 2019-2021: “Forecasting Counterfactuals in Uncontrolled Settings - FOCUS”
  - Role: consultant
  - Funding source: IARPA
  - PI: Alice Leung, Raytheon/BBN
  - Effort: 32 hours / month
- 2019-2021: “Recovering the Sources of Individual Differences Unduly-named Errors - ReSIDUE”.
  - Funding source: DARPA.
  - Role: PI
  - Co-PIs: Pascal Hitzler, Kansas State University, and Brandon Minnery, Kairos Research.
  - Effort: 1 postdoc, 1 course buyout, and 4 months faculty summer salary.
  - Funds total: $892,328
- 2019: Cognitive Models of Social Intelligence and Teamwork
  - Funding source: Wright State Research Institute
  - Role: PI

  - Effort: 1 postdoc (Othalia Larue)
  - Funds: $28,278.96
- Summer 2019: Repperger Internship for graduate student Alex Hough.
  - Funding source: Air Force Research Laboratory
  - Role: Faculty advisor
  - Effort (Alex Hough): 100% of 12 weeks
  - Total funds: $12,000
- 2018: Goal-driven Agile Teams and Environments (GATE)
  - Funding source: DARPA
  - PIs: Brandon Minnery and Michael T. Cox, WSRI
  - Effort: 1 course buyout, 1 postdoc
  - Funds for Ion Juvina: $89,997
- 2017 – 2019: "Hybrid Forecasting Competition"
  - Funding source: IARPA
  - PI: Brandon Minnery, WSRI
  - Co-PI: Ion Juvina
  - Effort: 1 months summer salary, 1 part-time (6 months) postdoc
  - Funds for Ion Juvina: $67,379
- 2015 – 2018: "Lapses of Attention Predicted in Semi-structured Ecological Settings (LAPSES)"
  - Funding source: Office of Naval Research
  - Role: Co-PI
  - Effort: 1.5 months summer salary, 1 postdoc (co-advised with Assaf Harel)
  - Total funds: $743,862
  - Funds allocated to Ion Juvina: $256,960
- 2014 – 2017: "Theory and Research Unifying Social, game-Theoretical, Ecological, Cognitive &Computational Approaches to Trust Dynamics (TRUSTE-CC)"
  - Funding source: Air Force Office of Scientific Research
  - Role: Principal Investigator
  - Effort: 1 course buyout per semester, 1 postdoc, and 1 graduate student
  - Funds: $448,870
- Summer 2014: Repperger Internship to graduate student Gary Douglas
  - Funding source: Air Force Research Laboratory
  - Role: Faculty advisor
  - Effort (Gary Douglas): 100% of 12 weeks
  - Total funds: $12,000
- Summer 2014: Support for Midwest CogSci Conference
  - Funding source: Air Force Office of Scientific Research
  - Role: Co-chair
  - Total funds: $4,000 (Shared with Joe Houpt)
- Summer 2014: Support for Midwest CogSci Conference
  - Funding source: Ball Aerospace Technologies, Corp.
  - Role: Co-chair
  - Total funds: $1,000 (Shared with Joe Houpt)

- Summer 2013: "Neurocognitive mechanisms of learning acceleration under conditions of brain stimulation"
    - Funding source: Air Force Office of Scientific Research
    - Supervisor: Tiffany Jastrzembski
    - Role: Faculty Fellow
    - Effort: 100% of 12 weeks
    - Funds: $15,600
- 2013 – 2015: "NEUMET-CO: A neuroimaging augmented meta-cognition model to predict the decision-making capabilities of war fighters" – Phase II
    - Funding source: Office of Naval Research
    - PI: Priya Ganapathy
    - Role: PI on subcontract to Wright State University
    - Funds: $69,912
- Summer 2012 – Spring 2013: "Neurocognitive mechanisms of learning acceleration following brain stimulation"
    - Funding source: Air Force Research Laboratory
    - PI: Tiffany Jastrzembski
    - Role: Associate investigator
    - Effort: 25% of full time
    - Funds: $25,000
- Spring 2012 – Summer 2012: "Modeling divers' performance in the N-Back-M-Pitch paradigm"
    - Funding source: Naval Submarine Medical Research Laboratory
    - PI: Michael Qin
    - Role: Associate investigator
    - Effort: 16% of full time
    - Funds: $9,471
- 2011 – 2012: "NEUMET-CO: A neuroimaging augmented meta-cognition model to predict the decision-making capabilities of war fighters" – Phase I
    - Funding source: Office of the Secretary of Defense
    - PI: Priya Ganapathy
    - Role: Academic consultant
    - Effort: 5%
- 2010 – 2012: "Understanding conflict with a socio-cognitive computational approach" (Defense Threat Reduction Agency; PIs: Cleotilde Gonzalez and Christian Lebiere)
    - Role: Member of the project team
- 2008 – 2010: "Learning robustly through embedded cognition" (Air Force Office of Scientific Research grant; PI: Niels A. Taatgen)
    - Role: Co-PI
- 2007 – 2009: "Cognitive models of individual differences and variability of behavior in complex skill acquisition" (Office of Naval Research grant; PI: Niels A. Taatgen)
    - Role: Investigator
    - Represented the team at the ONR project review meeting 2007

- 2006 – 2007: "The Representation and Learning of Procedures" (NASA; PIs John R. Anderson and Niels A. Taatgen)
    - Role: Investigator

Grant proposals submitted / in preparation / declined

- 2023: Teamwork Effectiveness and Alignment Measures for Ultimate Performance (TEAM-UP)
    - Funding source: DARPA
    - Prime: RTX Technology Research Center
    - PI for Wright State: Ion Juvina
    - Proposed budget for Wright State: $436,160
    - Status: Declined.

- 2022: Continuously AmplifyiNg multimoDal socio-communication Engagement for Learners with Autism at Scale (CANDELAS)
    - Funding source: National Science Foundation
    - Prime: University of South Carolina
    - PI for Wright State: Valerie Shalin
    - Role: Senior personnel
    - Proposed budget for Wright State: $1,037,428
    - Status: Declined.

Awards and recognition

- 2022: Celebrated for „Excellence in Grantsmanship" along with other WSU faculty who secured over $1,000,000 in funding for research over the last 5 years.
    - https://webapp2.wright.edu/web1/newsroom/2022/12/09/wright-state-honors-researchers-at-inaugural-excellence-in-grantsmanship-awards/63207-elizabeth-turner-excellence-in-grantmanship-11-17-22-2/
- 2022: Shortlisted among 3 of 32 papers for Best Paper Award at the International Computer-Human Interaction Conference (RoCHI 2022), Craiova, Romania.
- 2005: The James Chen Best Student Paper Award at the 10th International Conference on User Modelling, Edinburgh, Scotland, July 24-29, 2005.

Conference organization

- Chair of
    - The International Conference on Cognitive Modeling 2018
- Chair of the Program Committee at:
    - The International Conference on Computer-Human Interaction (RoCHI 2023), Cluj-Napoca, Romania
    - RoCHI 2008, Iasi, Romania
- Chair of Awards Committee at:
    - CogSci 2017
- Member of the tutorials review committee at:
    - ICCM 2016
- Member of the program committee at:

  - SocialSens Conference 2022 – present.
  - The International Conference on Augmented Cognition 2014 – present.
  - SBP-BRIMS 2020
  - CogSci (The Annual Meeting of the Cognitive Science Society) 2015 – 2019.
  - ICCM (International Conference on Cognitive Modeling) 2016 – 2018
  - ACM Hypertext (27th ACM Conference on Hypertext and Social Media) 2016
  - IndiDiff (Web Search and Individual Differences) 2016
  - BRiMS (Behavioral Representation in Modeling and Simulation) 2014
  - RoCHI (Romanian Chapter of ACM SIGCHI) 2004 - 2011
- Co-chair and member of the organizing committee at:
  - The 4th Annual Midwestern Cognitive Science Conference - 2014
- Member of the Organizing Committee at:
  - AAAI symposium on Integrated Cognition – Fall 2013
- Member of the Organization Committee at:
  - Tamodia (Task Models and Diagrams for User Interface Design), Bucharest 2002.

Editorial Boards & Editorial Services

- Frontiers in Psychology
  - Member of the Editorial Board
  - Associate Editor for Cognitive Science section
- Revista de Psihologie
  - Member of the Editorial Board
  - Member of the International Scientific Committee

Ad-Hoc Reviewer

- National Science Foundation
  - Decision, Risk, and Management Sciences (2023)
  - Science and Technology Centers (STC) (2022)
  - Perception, Action & Cognition (2010)
- Humanities and Social Sciences Communications (2023)
- European Journal of Neuroscience (2022)
- Scientific Reports (2022)
- IEEE Transactions on Human Machine Systems (2018, 2021)
- PLOS ONE (2020)
- ACM Transactions on Intelligent Interactive Systems (2017-2018)
- Economic Theory (2017)
- Psychological Review (2012-2016)
- Memory & Cognition
- Journal of Experimental Psychology: Learning, Memory, and Cognition (2012, 2019)
- Topics In Cognitive Science
- Cognitive Science Journal (2006 - 2016)
- Behavior & Information Technology

- Journal of Cognitive Systems Research
- Journal of Artificial General Intelligence
- Journal of Computational and Mathematical Organization Theory
- Interacting with Computers
- Applied Psychology – An International Review
- European Review of Applied Psychology
- Information Design Journal
- Frontiers in Psychology section Cognitive Science (2015-2024)
- IEEE Transactions on Computational Social Systems (2015)
- Romanian Review of Human-Computer Interaction
- ACM CHI Conference on Human Factors in Computing Systems (2020, 2023)
- Midwestern Cognitive Science (MWCogSci) Conference (2014)
- Cognitive Science (CogSci) Conference (2005-2018)
- International Conference on Cognitive Modeling (2017-2018)
- Human Factors and Ergonomics Society (HFES) Conference (2009 – 2016)
- Behavior Representation in Modeling and Simulation (BRIMS) Conference
- Romanian Computer Human Interaction (RoCHI) Conference (2007-2023)
- Human-Computer Interaction International Conference
- Augmented Cognition Conference (2014-2018)
- ACM Hypertext Conference (2016)

Academic service

- University-level service:
  - Member of the Scholarship and Sponsored Research Committee (Faculty Senate) (2021-present)
  - Member of the Research Advisory Council for the Wright State Research Institute (2018-2020)
- College-level service:
  - Member of Promotion and Tenure committee (2023-2024; 2020-2021)
  - Member of the Program Commitee for the Interdisciplinary Applied Science and Mathematics (IASM) program (2019-present)
  - Chair of a committee tasked with reviewing the department Chair's performance (2018)
  - Member of the College of Science and Math's Scholarship committee (2013)
- Department-level service:
  - Human Factors Area Leader (2022-present; shared with Valerie Shalin)
  - Organizer of the Department of Psychology Brown Bag seminar series (2014-present)
  - Co-leader (with Pamela Tsang) of the undergraduate Cognition and Perception (CAP) concentration (2022-present)
  - Member of the Undergraduate Curriculum Development Committee (UCDC) (2022-present)
  - Coordinator of the Department Bylaws Committee (2022-present)
  - Faculty search committee member (2014, 2023)

Community service

- Juvina, I. (2023). Challenges and Opportunties of Artificial Intelligence: Environmental Impact and Trust. Talk at the workshop „AI and the Future of Work: A roadmap for Effectively Incorporating AI into the Workplace." Wright State University, November 17, 2023. https://www.wright.edu/event/ai-workshop

Affiliations

- American Psychological Association
- Cognitive Science Society
- Psychonomic Society
- RoCHI – Romanian Special Interest Group in Computer-Human Interaction
    - Founding member

Skills

- Language: English (fluent), Romanian (native)
- Computer: programming (Lisp, Matlab), cognitive modeling (ACT-R, Soar)
- Data: collection (The Observer, Camtasia, E-prime) and analysis (R, SPSS, Statistica, SPM, FSL)
- Scientific editing, writing, and presentation skills
- Project management and consulting skills

Hobbies

- Soccer, Squash, and Running.

Publications

Papers in preparation / submitted / in press

Kneeland, C., Houpt, J.W., & Juvina, I. (in press). How do people process information from automated decision aids: An application of Systems Factorial Technology. *Computational Brain and Behavior*.

Juvina, I., O'Neill, K., Carson, J., Menke, P., Wong, C.H., McNett, H., & Holsinger, G. (in press Dec 2023). Human-AI Coordination to Induce Flow in Adaptive Learning Systems. Book chapter.

Juvina, I., Carson, J., Menke, P., & Crowe, P. (2023, under review). Knowledge Spillover, Trust, Effort, and Error Exposure in Peer-Assisted Learning. Submitted to *Topics in Cognitive Science*. Preprint: https://doi.org/10.31234/osf.io/4rp6y

Fiechter, J.L., Minnery, B., Choi, T., Handfield, R., Shao, B.B.M., Widmer, C., Juvina, I., & Steyvers, M. (submitted 2023). A crowd-sourced approach to identifying critical suppliers: Nexus supplier index revisited. *Decision Support Systems*.

Johnson, K. & Juvina, I. (submitted 2023). Reintegrating Humanity and Nature in Education and Workplaces. *Journal of Excellence in Integrated Writing*, Wright State University.

Book chapters

Juvina, I., Larue, O., Widmer, C., Ganapathy, S., Nadella, S., Minnery, B., Ramshaw, L., Servan-Schreiber, E., Balick, M., & Weischedel, R. (2020). Computer-supported collaborative information search for geopolitical forecasting. In Wai Tat Fu & Herre van Oostendorp (Eds.) *Understanding and Improving Information Search – A Cognitive Approach.* Human–Computer Interaction Series, Springer Nature. https://www.springer.com/gp/book/9783030388249

Papers in peer reviewed journals

Summerville, A., Widmer, C., Minnery, B., Juvina, I., & Ganapathy, S. (2024). A Human-Machine Hybrid Approach to Wisdom of Crowds in Geopolitical Forecasting. *Decision 11*(1): 108-126.

Carson, J., Juvina, I., O'Neill, K., Wong, C.H., Menke, P., Kindell, K.M., Harmon, E. (2024). Peer-assisted learning is more effective at higher task complexity and difficulty. *Topics in Cognitive Science 16*(1): 129-153. http://doi.org/10.1111/tops.12708

Widmer, C., Sarker, M.K., Nadella, S., Fiechter, J., Juvina, I., Minnery, B., Hitzler, P., Schwartz, J., & Raymer, M. (2023). Towards Human-Compatible XAI: Explaining Data Differentials with Concept Induction over Background Knowledge. *Journal of Web Semantics*: 100807.

Collins, M.G. & Juvina, I. (2021). Trust Miscalibration Is Sometimes Necessary: An Empirical Study and a Computational Model. *Front. Psychol*. 12:690089. doi: 10.3389/fpsyg.2021.690089.

Widmer, C.L., Summerville, A., Juvina, I., & Minnery, B.S. (2021). Effects of choice restriction on accuracy and user experience in an internet-based geopolitical forecasting task. *Front. Psychol. 12:*662279. doi: 10.3389/fpsyg.2021.662279 (Impact Factor: 2.99)

Hough, A., O'Neill, K., & Juvina, I. (2021). Counterfactual-based Nudging and Signaling Promote More Efficient Coordination During Group Tasks. *Comprehensive Results in Social Psychology*. https://www.tandfonline.com/doi/full/10.1080/23743603.2020.1860674

Nador, J., Harel, A., Juvina, I., Minnery, B. (2020). The Case of the Cognitive (Opti)miser: Electrophysiological Correlates of Working Memory Maintenance Predict Demand Avoidance. *Journal of Cognitive Neuroscience 32*(8): 1550-1561.

Myers, C., Houpt, J., & Juvina, I. (2019). Editors' Introduction: Best Papers From the 2018 International Conference on Cognitive Modeling. In Christopher Myers, Joseph Houpt, and Ion Juvina (Topic Editors) Best Papers from the 16th International Conference on Cognitive Modeling, *Topics in Cognitive Science 11*: 220–221.

Juvina, I., Collins, M.G., Larue, O., Kennedy, W., de Visser, E., & de Melo, C. (2019). Toward a unified theory of learned trust in interpersonal and human-machine interactions. *ACM Transactions in Interactive Intelligent Systems, 9*(4), 1-33. https://doi.org/10.1145/3230735

Larue, O., West, R., Rosenbloom, P.S., Dancy, C.L., Samsonovich, A.V., Petters, D., & Juvina, I. (2018). Emotion in the Common Model of Cognition, *Procedia Computer Science*, *145*: 740-746.

Juvina, I., Larue, O., & Hough, A. (2018). Modeling valuation and core affect in a cognitive architecture: The impact of arousal and valence on memory and decision-making. *Cognitive Systems Research 48*: 4-24. http://dx.doi.org/10.1016/j.cogsys.2017.06.002

Ulrich, D. L., Brewer, T. L., Steele-Johnson, D., Juvina, I., Peyton, E. J., & Hammond, C. (2017). Team-Based Learning Effects on Standardized Test Scores and Student Reactions. *Journal on Excellence in College Teaching, 28*(2), 133-165.

Larue, O. & Juvina, I. (2016). A call for unification of dual- and single-process accounts in cognitive models of intuition. *Journal of Applied Research in Memory and Cognition*. 5(3):338-340, http://dx.doi.org/10.1016/j.jarmac.2016.06.007

Collins, M.G., Juvina, I., & Gluck, K. (2016). Cognitive model of trust dynamics predicts outcomes within and between two games of strategic interaction. *Frontiers in Psychology, section Cognitive Science*, *7*.

Juvina, I., Lebiere, C., & Gonzalez, C. (2015). Modeling trust dynamics in strategic interaction. *Journal of applied research in memory and cognition. 4*(3): 197-211. http://dx.doi.org/10.1016/j.jarmac.2014.09.004

Grange, J. A., & Juvina, I. (2015). The effect of practice on n–2 repetition costs in set switching. *Acta Psychologica, 154*, 14-25.

Martin, J.M., Gonzalez, C., Juvina, I., & Lebiere, C. (2014). A Description-Experience Gap in Social Interactions: Information about Interdependence and Its Effects on Cooperation. *Journal of Behavioral Decision Making*, *27*: 349-362.

Martin, J.M., Juvina, I, Lebiere, C., & Gonzalez, C. (2013). The Effects of Individual and Context on Aggression in Repeated Social Interaction. *Applied Ergonomics*. *44*(5): 710-718. doi:10.1016/j.apergo.2012.04.014

Juvina, I., Saleem, M., Martin, J.M., Gonzalez, C., & Lebiere, C. (2013). Reciprocal trust mediates deep transfer of learning between games of strategic interaction. *Organizational Behavior and Human Decision Processes*. *120*(2): 206-215. http://dx.doi.org/10.1016/j.obhdp.2012.09.004

Grange, J.A., Juvina, I., & Houghton, G. (2013). On Costs and Benefits of n–2 Repetitions in Task Switching: Toward a Behavioural Marker of Cognitive Inhibition. *Psychological Research*. *77*(2): 211-222.

Juvina, I. (2011). Cognitive Control: Componential and yet emergent. *Topics in Cognitive Sciences*. *3*(2): 242-246.

Juvina, I., (2011). Neural substrates of inhibitory control: A review and critique. *Revista de Psihologie*. *57*(2), 135-145.

Juvina, I., Lebiere, C., Martin, J., & Gonzalez, C. (2011). Intergroup Prisoner's Dilemma with Intragroup Power Dynamics. *Games*. *2*(1), 21-51.

Juvina, I., & Taatgen, N. A. (2009). A repetition-suppression account of between-trial effects in a modified Stroop paradigm. *Acta Psychologica*. *131*(1), 72-84.

Taatgen, N.A., Juvina, I., Schipper, M., Borst, J., & Martens, S. (2009). Too much control can hurt: A threaded cognition model of the attentional blink. *Cognitive Psychology*, 59, 1-29.

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Wong, C. H., Chung, S., Pitts, M., & Juvina, I. (2023). *Experiences of Chinese Pilots Learning Aviation English: Insights and Opportunities*. Paper presented at the International Civil Aviation English Association (ICAEA) Conference.

Wong, C. H. & Juvina, I. (2023). *Challenges and Opportunities of Learning Aviation English by Chinese Pilots*. Paper presented at the International Symposium on Aviation Psychology. Rochester, NY.

Fiechter, J.L., Juvina, I., Summerville, A., Wellborn, B.L., Banerjee, T., & Dooley, C. (2023). *Evaluating the effect of acceleration on in-flight oxygen demands*. Paper presented at the International Symposium on Aviation Psychology. Rochester, NY.

Fiechter, J. L., Juvina, I., & Minnery, B. (2022). *Modeling paired-choice data to effectively predict human evaluations of individual performance.* Paper presented at the National Defense Industrial Association's (NDIA's) Human Systems Conference June 15-16, Arlington, VA.

Widmer, C., Summerville, A., Leung, A., Creagh, N., Humez, A., Juvina, I, Bernardin, F., & Minnery, B. (2022). *A Crowd of 'Crowds Within': Improving Aggregated Crowd Accuracy in a Small Team Counterfactual Forecasting Task.* Poster presented at the annual meeting of the Society for Judgment and Decision Making.

Carson, J., Menke, P., Crowe, P., Wong, C.H., Juvina, I. (2021, October 8). *Peer-Assisted Learning: Investigating the Mechanisms of Knowledge Spillover and Trust*. Poster presented at Wright State University College of Science and Mathematics' Festival of Research, Dayton, OH, United States.

Mahoney, L., Houpt, J., & Juvina, I. (2021). *Explaining task-switching behavior using evidence accumulation models*. Paper presented at the 54th Annual Meeting of the Society for Mathematical Psychology, virtual.

Juvina, I. (2020). Modeling peer effects in interactive learning. Talk given at the 27th ACT-R Worshop.

Juvina, I., Aue, W. R., Minnery, B., Hitzler, P., Nadella, S., & Sarker, M. K. (2020). Counterfactual reasoning over large-scale human performance optimization experiments. Virtual poster presented at the annual meeting of the Psychonomic Society.

Juvina, I. (2020). Empirical guidance for computational models of interactive learning. Talk given at the 40th Soar Workshop.

Juvina, I., O'Neill, K., Hough, A., Crowe, P., Collins, M., Larue, O., & Green, R. (2019). *Overcoming cognitive effort avoidance.* Poster presented at the 18th International Conference on Social Dilemmas. Sedona, AZ.

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O'Neill, K., Green, R., & Juvina, I. (2018, May). *Inducing and transferring the state of flow to arbitrary attentional control tasks*. Poster presented at the Midwest CogSci Conference, Bloomington, IN.

Hough, A., O'Neill, K., Collins, M., & Juvina, I. (2018, May). *Cognitive effort in induvidual and group tasks*. Poster presented at the Midwest CogSci Conference, Bloomington, IN.

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Juvina, I. & Larue, O. (2017, March). *Modeling costs and benefits of negative affect*. Presented at the 59th Conference of Experimental Psychologists (TeaP 2017), Dresden, Germany.

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Juvina, I., Larue, O., Collins, M.G., & Crowe, P. (2016, August). *Learning to trust and trusting to learn.* Presented at ACT-R Postgraduate Summer School, Lancaster, PA.

Larue, O. & Juvina, I. (2016, August). *From implicit affect to explicit emotion*. Presented at ACT-R Postgraduate Summer School, Lancaster, PA.

Juvina, I. & Larue, O. (2015, July). *The effect of interaction in a team-based learning environment*. Presented at ACT-R Workshop, Pittsburgh, PA.

Collins, M.G., Juvina, I., & Gluck, K. (2015, July). *Comparing Predicted and Observed Trust Dynamics Within and Between Games of Strategic Interaction*. Presented at ACT-R Workshop, Pittsburgh, PA.

Simmons, A., Juvina, I., Larue, O., & Douglas, G. (2015, April). *Comparing passive and active learning conditions via cognitive modeling.* Presented at the annual meeting of the Midwestern Psychological Association, Chicago, IL.

Collins, M., Juvina, I., Douglas, G., & Gluck, K. (2015, March). *Predicting Trust Dynamics and Transfer of Learning in Games of Strategic Interaction as a Function of a Player's Strategy and Level of Trustworthiness*. Presented at BRIMS2015 Conference, Washington, DC.

Collins, M., Juvina, I., Douglas, G., Gluck, K. (2014, May). *Modeling trust dynamics in games of strategic interaction*. Presented at The Fourth Annual Midwest Cognitive Science Conference, Dayton, OH.

Douglas, G., Juvina, I. (2014, May). *Trust mitigates uncertainty in team-based learning*. Presented at The fourth annual Midwest Cognitive Science Conference, Dayton, OH.

Peyton, E. J., Steele-Johnson, D., Brewer, T., Ulrich, D., Parmelee, D., & Juvina, I. (2014, March). *Examining Shared Leadership and Decision Making as Processes that Underpin TBL's Relationship with Academic Performance*. Presented at the Team Based Learning Cooperative Conference, Ft. Worth, TX.

Ulrich, D. L., Brewer, T. L., Steele-Johnson, D., Juvina, I., & Peyton, E. J. (2013, November). *How to surpass national averages: Team-based learning boosts standardized test scores in nursing*. Presented at the 33rd Annual Lilly International Conference on College Teaching, Miami, OH.

Juvina, I., Oltramari, A., & Lebiere, C. (2011, July). Theoretical and empirical guidance for a chunk valuation mechanism in ACT-R. Presented at The ACT-R Post Graduate Summer School, North Conway, NH.

Grange, J. A., & Juvina, I., (2011, September). Inhibition & facilitation in task switching: A computational model. Presented at the Annual Conference of the British Psychological Society, Cognitive Psychology Section, Keele, U.K.

Juvina, I., Grange, J. A., & Lebiere, C. (2011, November). From Repetition Suppression in Stroop to Backward Inhibition in Task Switching: An Example of Model Reusability. Presented at the Annual Conference of Biologically Inspired Cognitive Architecture (BICA), Arlington, VA.

Martin, J.M., Juvina, I., Lebiere, C., & Gonzalez, C. (2011, July). *The Effects of Individual and Context on Aggression in Repeated Social Interaction*. Presented at Human Computer Interaction International Conference. Thematic area: Engineering Psychology and Cognitive Ergonomics.

Juvina, I. (2011, March). *Intergroup Prisoner's Dilemma with Intragroup Power Dynamics*. Presented at Behavior Representation in Modeling and Simulation (BRIMS) Conference.

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Juvina, I., Lebiere, C., Martin, J., & Gonzalez, C. (2010, August). *IPD2: A game paradigm for studying intragroup power dynamics*. Presented at The Annual Conference of the Cognitive Science Society, Workshop on Cognitive Social Sciences, Portland, OR.

Lebiere, C., Stocco, A., Reitter, D., & Juvina, I. (2010). *Scaling up high-fidelity cognitive modeling to real-world applications*. In Proceedings of NATO Workshop on Human Modeling for Military Application. Amsterdam, NL, October 18-20.

Juvina, I., & Taatgen, N.A. (2009, November). *Disruption of task-specific strategies promotes strategic thinking*. Presented at the 4th Computational Cognitive Neuroscience Conference, Boston, MA.

Juvina, I., & Taatgen, N.A. (2008, July). *How do we ignore irrelevant information presented on displays?* Presented at the Fifteenth Annual ACT-R Workshop, Pittsburgh, PA.

Juvina, I. (2007, September). *IONS-VIP: a cognitive model for navigating the web via screen readers.* Presented at the Fourth Annual Conference of RoCHI, Constanta, Romania.

Juvina, I., & Oostendorp, H. van (2005, July). *Bringing cognitive models in the domain of Web accessibility.* Presented at the HCI International conference, Las Vegas.

Videos

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Juvina, I. (2020). Modeling peer efects in interactive learning. Talk at the 27th ACT-R Worshop. https://mathpsych.org/presentation/269

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