

Curriculum Vitae

JING CHEN

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Education

Ph.D., Cognitive Psychology	Purdue University	2015
M.S., Industrial Engineering	Purdue University	2015
M.Ed., Cognitive Psychology	Zhejiang University	2010
B.S., Psychology	Zhejiang University	2007

Professional Experience

07/2022 –	Assistant Professor of Psychology <i>Department of Psychological Sciences, Rice University, Houston, TX</i>
08/2017 – 05/2022	Assistant Professor of Human Factors Psychology <i>Department of Psychology, Old Dominion University (ODU), Norfolk, VA</i>
08/2015 – 08/2017	Assistant Professor of Engineering Psychology <i>Department of Psychology, New Mexico State University (NMSU), Las Cruces, NM</i>
08/2010 – 08/2015	Graduate Research/Teaching Assistant <i>Department of Psychology, Purdue University, West Lafayette, IN</i>

Selected Honors and Awards

Earl Alluisi Award for Early Career Achievement, American Psychological Association (APA) Division 21	2022
Outstanding Faculty Research Award, Department of Psychology, ODU	2021
Rising Star Award, Association for Psychological Science (APS) For “ <i>outstanding psychological scientists in the earliest stages of their research career post-PhD</i> ”, awarded by APS, “ <i>the leading international organization dedicated to advancing scientific psychology across disciplinary and geographic borders</i> ”	2019
Representative for APA at the 25 th Coalition for National Science Funding (CNSF) Annual Exhibition on Capitol Hill “ <i>display a wide range of scientific research and education projects and university researchers and educators are on hand to describe their work to interested Members of Congress and their staffs</i> ”	2019
George E. Briggs Dissertation Award, APA For “ <i>the best doctoral dissertation in applied experimental/engineering psychology</i> ”, awarded by APA, “ <i>the largest scientific and professional organization of psychologists</i> ”	2017

in the United States”

Faculty Travel Grant, College of Arts & Sciences, New Mexico State University (\$800)	2017
Women in CyberSecurity (WiCyS 2017) Faculty Scholarship	2017
Mini Grant, College of Arts and Science, New Mexico State University (\$2,080)	2016
Women in CyberSecurity (WiCyS 2015) Student Scholarship	2015
Purdue University Graduate School Fellowship Incentive Grant (\$100)	2015
American Psychological Association Dissertation Research Award (\$1,000)	2014
Purdue University Bilstrand Dissertation Fellowship (\$19,000)	2014–2015
College of Health and Human Sciences Compton Graduate Research Travel Award (\$500)	2014
Human Factors and Ergonomics Society Student Author Presentation Support Award (\$600)	2014
Psychological Sciences Department Award for Graduate Research Innovation (\$1,000)	2014
Psychological Sciences Department Graduate Research Publication Award (\$250)	2014
Student Member with Honors of the Human Factors and Ergonomics Society	2013
School of Industrial Engineering GSO Research Symposium Poster Contest (\$500)	2013
C. Eugene Walker Outstanding Graduate Student Department Award (\$800)	2013
Purdue Graduate Student Government Travel Grant (\$1,000)	2012
Annual Computer Security Applications Conference Student Conferenceship (\$1,000)	2012
Human Factors and Ergonomics Society COTG Student Travel Honorarium (\$700)	2012
Purdue University Frederick N. Andrews Fellowship (\$18,000 each year)	2010–2012

Grants

Awarded: External funding (total: \$2,531,199; total personal share: \$762,299):

1. **NSF CHS: SMALL: AI-Human Collaboration in Autonomous Vehicles for Safety and Security.** (funded; 10/1/2020-9/30/2023)
 - **Jing Chen** (PI), Bin Hu (Co-PI), Cong Wang (Co-PI)
 - Role: PI
 - Total amount: \$500,000; amount to Chen: \$170,000 (34%)
2. **NSF SCC-IRG Track 2: Scalable Modeling and Adaptive Real-time Trust-based Communication (SMARTc) System for Roadway Inundations in Flood-prone Communities** (funded; 9/1/2020-8/31/2023)
 - Khan M. Iftekharruddin (PI), Mecit Cetin (Co-PI), **Jing Chen** (Co-PI), Navid Tahvildari (Co-PI), Jonathan L. Goodall (Co-PI; University of Virginia)
 - Role: Co-PI
 - Total amount: \$1,483,427; amount to Chen: \$239,696 (25% of ODU share)
3. **NSF REU Site: Interdisciplinary Research Experience in Behavioral Sciences of Transportation Issues.** (funded; 4/1/2020-3/30/2023)

- Yusuke Yamani (PI), **Jing Chen** (Co-PI)
 - Role: Co-PI
 - Total amount: \$350,840; amount to Chen: \$175,420 (50%)
4. **NSF CRII: CHS: Human in the Loop: Safety for Semi-autonomous Driving Systems in Emergency Situations.** (completed; 8/1/2016-7/31/2019)
 - **Jing Chen** (PI)
 - Role: Sole PI
 - Total amount: \$174,989; amount to Chen: \$174,989 (100%)
 5. **APA Summer Undergraduate Psychology Research Experience** (funded; 5/1/2020-9/30/2020; canceled due to COVID-19)
 - Alan Meca (PI), Jeremiah Still (Co-PI), **Jing Chen** (Co-PI), Kristin Heron (Co-PI), Matt Judah (Co-PI), Michelle Kelley (Co-PI)
 - Role: Co-PI
 - Total amount: \$21,943; amount to Chen: \$2,194 (10%)

Intramural funding:

1. **Undergraduate Research in Cybersecurity** (funded; 2020 Spring): *Explainable AI: Calibrate Human Trust for Human-AI Systems*
 - Undergraduate student: Erin Fullerjakaitis; Faculty mentor: **Jing Chen**
 - Agency: ODU Center for Cybersecurity Education and Research, funded by NSF
 - Total amount: \$2,000 for student; \$1150 for mentor
2. **Undergraduate Research in Cybersecurity** (funded; 2019 Fall): *City Micromobility and User Privacy*
 - Undergraduate student: Qwe’Vontae R. Eure; Faculty mentor: **Jing Chen**
 - Agency: ODU Center for Cybersecurity Education and Research, funded by NSF
 - Total amount: \$2,000 for student; \$1150 for mentor
3. **ODU Research Experience for Undergraduates (REU) Program in Cybersecurity: Deep Learning Driven Cybersecurity Research in a Multidisciplinary Environment**
 - Agency: National Science Foundation through Old Dominion University
 - Role: Faculty mentor (2020; canceled due to COVID-19)
4. **Faculty Proposal Preparation Program Award** (2019; funded): *Increase Driver Vigilance for Autonomous Driving*
 - Agency: Old Dominion University
 - Role: Sole PI
 - Total amount: \$4,000
5. **NMSU BIGData Research Experience for Undergraduates (REU) program: BIG Data Analytics for Cyber-physical Systems**

- Agency: National Science Foundation through New Mexico State University
 - Role: Faculty mentor (2017)
6. **College of Arts and Sciences Mini-grant** (2016; funded): *Boosting Online Charitable Giving through Webpage Design*
- Agency: New Mexico State University
 - Role: Sole PI
 - Total amount: \$2,080

Teaching

Old Dominion University:

Human Factors (PSYC 344)

Spring 2022 (71 students), Fall 2021 (74), Fall 2020 (29), Spring 2020 (36), Fall 2019 (27),
Spring 2019 (39), Fall 2018 (38), Spring 2018 (14), Fall 2017 (36)

Research Methods (PSYC 318)

Fall 2020 (99), Summer 2020 (34), Spring 2020 (57), Spring 2019 (10), Spring 2018 (12)

Human Factors in Cybersecurity (PSYC 896)

Fall 2021 (5), Fall 2018 (7)

Transportation Safety and Human Behavior (PSYC 895)

Spring 2022 (3)

New Mexico State University:

Methods in Engineering Psychology (PSY 570)

Spring 2017 (9)

Experimental Methods (PSY 310)

Spring 2017 (27), Fall 2016 (23), Spring 2016 (44)

Engineering Psychology (PSY 547)

Fall 2016 (16)

Human-Computer Interaction (PSY530)

Fall 2015 (9)

Computer Methodology (PSY510)

Spring 2016 (Substitute instructor for two weeks)

Purdue University:

Human Factors in Engineering (PSY/IE 577)

Spring 2012; Fall 2011; Fall 2010

Teaching Assistant; Guest Lecturer

Instructor: Dr. Robert W. Proctor

Introduction to Cognitive Psychology (PSY 200)

Spring 2011

Teaching Assistant

Instructor: Dr. Gregory Francis

Publications

Book Chapter (* indicates supervised graduate student)

1. **Chen, J.**, Mishler*, S., Long, S., Yahoodik, S., Garcia*, K., & Yamani, Y. (in press). Human-automation interaction for semi-autonomous driving: Risk communication and trust. In V. G. Duffy, S. J. Landry, J. D. Lee, N. A. Stanton (Eds.), *Human-Automation Interaction: Transportation*. Springer.

Peer Reviewed Journal Articles (*supervised graduate or undergraduate student)

1. **Chen, J.**, Šabić*, E., Mishler*, S., Parker*, C., & Yamaguchi, M. (in press). Effectiveness of lateral auditory collision warnings: Should warnings be toward danger or toward safety? *Human Factors*.
2. Ammons*, J., Parker*, C. & **Chen, J.** (in press). Time pressure and product ratings on consumers' choices and eye fixations. *International Journal of Human-Computer Interaction*.
3. Šabić*, E., **Chen, J.**, & MacDonald, J. (in press). Towards a better understanding of in-vehicle auditory warnings and background noise. *Human Factors*.
4. **Chen, J.**, Ge, H., Li, N., & Proctor, R.W. (in press). What I say means what I did: Risk concerns and mobile application-selection behaviors. *Human Factors*.
5. Unverricht, J., Yamani, Y., **Chen, J.**, & Horrey, W.J. (in press). Minding the gap: Effects of an attention maintenance training program on driver calibration. *Human Factors*.
6. Scott-Sharoni, S.T., Yamani, Y., Kneelan, C.M., Long, S.K., **Chen, J.**, Houpt, J.W. (in press). Exploring the effects of perceptual separability on human-automation team efficiency. *Computational Brain & Behavior*.
7. **Chen, J.**, Mishler* S., & Hu, B. (2021). Automation error type and methods of communicating automation reliability affect trust and performance: An empirical study in the cyber domain. *IEEE Transactions on Human-Machine Systems*, 51, 463-473.
8. **Chen, J.**, Seibold, J.C., Zhong, Q., Müsseler, J., & Proctor, R.W. (2021). Is effector visibility critical for performance asymmetries in the Simon task? Evidence from hand- and foot-press responses. *Attention, Perception, & Psychophysics*, 83, 463-474.
9. **Chen, J.** (2020; invited paper). Risk communication in cyberspace: A brief review of the information-processing and mental models approaches. *Current Opinion in Psychology*, 36, 135-140.
10. Yamaguchi, M., & **Chen, J.** (2019). Affective influences without approach-avoidance actions: On the congruence between valence and stimulus-response mappings. *Psychonomic Bulletin & Review* 26, 545-551.
11. **Chen, J.**, Ge, H., Moore, S., Yang, W., Li, N., & Proctor, R. W. (2018). Display of major

- risk categories for android apps. *Journal of Experimental Psychology: Applied*, 24, 306-330.
12. **Chen, J.**, Mishler*, S., Hu, B., Li, N., & Proctor, R. W. (2018). The description-experience gap in the effect of warning reliability on user trust and performance in a phishing detection context. *International Journal of Human-Computer Studies*, 119, 35-47.
 13. Yamaguchi#, M., **Chen#, J.**, Mishler*, S., Proctor, R. W. (2018). Flowers and spiders in spatial stimulus-response compatibility: Does affective valence influence selection of task-sets or selection of responses? *Cognition and Emotion*, 32, 1003-1017. (#equal contribution)
 14. Hu, B. & **Chen, J.** (2017). Optimal task allocation for human-machine collaborative manufacturing systems. *IEEE Robotics and Automation Letters*, 2, 1933-1940.
 15. **Chen, J.** & Proctor, R. W. (2017). Role of accentuation in the selection/rejection task framing effect. *Journal of Experimental Psychology: General*, 146, 543-568.
 16. Song, X., **Chen, J.**, & Proctor, R. W. (2017). Role of hand dominance in mapping preferences for emotional-valence words to keypress responses. *Acta Psychologica*, 180, 33-39.
 17. Seibold, C. J., **Chen, J.**, & Proctor, R. W. (2016). Exploring handedness asymmetries in the Simon effect. *Attention, Perception, & Psychophysics*, 78, 437-451.
 18. Proctor, R. W. & **Chen, J.** (2015; invited paper). The role of human factors/ergonomics in the science of security: Decision making and action selection in cyberspace. *Human Factors*, 57, 721-727.
 19. **Chen, J.**, Gates, C., Li, N., & Proctor, R. W. (2015). Influence of risk/safety information framing on android app-selection decisions. *Journal of Cognitive Engineering and Decision Making*. 9, 149-168.
 20. Yamaguchi, M., **Chen, J.**, & Proctor, R. W. (2015). Transfer of learning in choice reactions: The roles of stimulus type, response mode, and set-level compatibility. *Memory & Cognition*. 43, 825-836.
 21. **Chen, J.**, & Proctor, R. W. (2015). Influence of response-effect feedback on learning and performance of a complex key-pressing task: Morin and Grant (1955) revisited. *American Journal of Psychology*. 128, 197-208.
 22. **Chen, J.** & Proctor, R. W. (2014). Conceptual response distance and intervening keys distinguish action goals in the Stroop color-identification task. *Psychonomic Bulletin & Review*, 21, 1238-1243.
 23. Gates, C., **Chen, J.**, Li, N., & Proctor, R. W. (2014). Effective risk communication for Android Apps. *IEEE Transactions on Dependable and Secure Computing*, 11, 252-265.
 24. Song, X., **Chen, J.**, & Proctor, R.W. (2014). Correspondence effects with torches: Grasping affordance or visual feature asymmetry? *Quarterly Journal of Experimental Psychology*, 67, 665-675.
 25. **Chen, J.**, & Proctor, R. W. (2013). Response-effect compatibility defines the natural scrolling direction. *Human Factors*, 55, 1112-1129.

26. Baroni, G., Yamaguchi, M., **Chen, J.**, & Proctor, R. W. (2013). Mechanisms underlying transfer of task-defined rules across feature dimensions. *Experimental Psychology*, *60*, 410-424.
27. **Chen, J.**, & Proctor, R. W. (2012). Influence of category identity on letter matching: Conceptual penetration of visual processing or response competition? *Attention, Perception, & Psychophysics*, *74*, 716-729.
28. Proctor, R. W., & **Chen, J.** (2012). Dissociating influences of key and hand separation on the Stroop color-identification effect. *Acta Psychologica*, *141*, 39-47.
29. **Chen, J.**, Zhou, J., Cui, Y., & Shen, M. (2009). Visual masking effect depends on the perceived locations of objects. *Chinese Journal of Applied Psychology*, *15*, 291-297.
30. Gao, Z., Shui, R., **Chen, J.**, Chen, W., Tian, Y., & Shen, M. (2009). The mechanism of negative numbers' spatial representation. *Acta Psychologica Sinica*, *41*, 95-102.
31. Shen, M., Shen, Y., Liang, J., Qiao, Y., **Chen, J.**, Chen, W., & Chen, S. (2008). IM usage experience and the model with usage motivation and preference. *Chinese Journal of Applied Psychology*, *14*, 195-202.

Peer Reviewed Conference Proceedings & Extended Abstracts (* supervised student) *peer-reviewed and presented at internationally recognized conferences*

1. Garcia*, K., Xiao, Y., Mishler*, S., Wang, C., Hu, B., & **Chen, J.** (2022). Identifying Perturbed Roadway Signs: Perception of AI Capabilities. To appear in *Proceedings of the Human Factors and Ergonomics Society 66th International Annual Meeting*. Washington DC: HFES.
2. Mishler*, S. & **Chen, J.** (2022). Countering Driver Vigilance Decrement for Partially Automated Vehicles. To appear in *Proceedings of the Human Factors and Ergonomics Society 66th International Annual Meeting*. Washington DC: HFES.
3. Taylor*, S., Garcia*, K., **Chen, J.**, & Hu, B. (2022). Adaptive Task Allocation Preferences in Different Workload Scenarios when Driving Level 2 and Level 3 Automated Vehicles. To appear in *Proceedings of the Human Factors and Ergonomics Society 66th International Annual Meeting*. Washington DC: HFES.
4. Ammons*, J., Parker*, C., & **Chen, J.** (2021). Effects of time pressure and user ratings for online shopping. In *Proceedings of the Human Factors and Ergonomics Society 65th International Annual Meeting*. Washington DC: HFES.
5. Mishler*, S., Garcia*, K., Fuller-Jakaitis*, E., Wang, C., Hu, B., Still, J., & **Chen, J.** (2021). Predicting a malicious stop sign: Knowledge, exposure, trust in AI. In *Proceedings of the Human Factors and Ergonomics Society 65th International Annual Meeting*. Washington DC: HFES.
6. Parker*, C. & **Chen, J.** (2020). The Effects of Security Framing, Time Pressure, and Brand Familiarity on Risky Mobile Application Downloads. In *Proceedings of the Human Factors*

- and Ergonomics Society 64th International Annual Meeting (pp. 1872-1873). Washington DC: HFES.
7. Mishler*, S. & **Chen, J.** (2020). The Rise, Fall, and Repair of Trust for Automated Driving Systems. In *Proceedings of the Human Factors and Ergonomics Society 64th International Annual Meeting* (p. 2006). Washington DC: HFES.
 8. Mishler*, S., Jeffcoat*, C., & **Chen, J.** (2019). Effects of Anthropomorphic Phishing Detection Aids, Transparency Information, and Feedback on User Trust, Performance, and Aid Retention. In *Proceedings of the Human Factors and Ergonomics Society 63rd International Annual Meeting* (p. 183). Washington DC: HFES.
 9. McManus*, W. & **Chen, J.** (2019). The Effects of Vehicle Automation Level and Warning Type on Responses to Vehicle Hacking. In *Proceedings of the Human Factors and Ergonomics Society 63rd International Annual Meeting* (p. 1977). Washington DC: HFES.
 10. **Chen, J.**, Mishler*, S., & Hu, B. (2018). Conveying Automation Reliability and Automation Error Type An Empirical Study in the Cyber Domain. In *Proceedings of the Human Factors and Ergonomics Society 62nd International Annual Meeting* (pp. 172-173). Washington DC: HFES.
 11. Mishler*, S., & **Chen, J.** (2018). Effect of Response Method on Driver Responses to Auditory Warnings in Simulated Semi-autonomous Driving. In *Proceedings of the Human Factors and Ergonomics Society 62nd International Annual Meeting* (pp. 1934-1938). Washington DC: HFES.
 12. Mishler*, S., **Chen, J.**, Sabic*, E., Hu, B. Li, N., & Proctor, R. W. (2017). Description-Experience Gap: The Role of Feedback and Description in Human Trust in Automation. In *Proceedings of the Human Factors and Ergonomics Society 61st International Annual Meeting* (p. 313). Washington DC: HFES.
 13. Sabic*, E. & **Chen, J.** (2017). Left or Right: Auditory Collision Warnings for Driving Assistance Systems (p. 1551). In *Proceedings of the Human Factors and Ergonomics Society 61st International Annual Meeting*. Washington DC: HFES.
 14. Sabic*, E., Mishler*, S., **Chen, J.**, & Hu, B. (2017). Recognition of Car Warnings: An Analysis of Various Alert Types. In *Proceedings of the 2017 CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI 2017)* (pp. 2010-2016). New York: ACM. (Acceptance Rate: 39%)
 15. Yang, W., Xiong, A., **Chen, J.**, Proctor, R. W., & Li, N. (2017). Use of Phishing Training to Improve Security Warning Compliance: Evidence from a Field Experiment. In *Proceedings of the Symposium and Bootcamp on the Science of Security (HoTSoS 2017)* (pp. 52-61). New York: ACM.
 16. Sabic*, E. & **Chen, J.** (2016). Threshold of Spearcon Recognition for Auditory Menus. In *Proceedings of the Human Factors and Ergonomics Society 60th International Annual Meeting* (pp. 1539-1543). Washington DC: HFES.

17. Young*, T., **Chen, J.**, & Shentu*, Z. (2016). Effect of Cursor Orientation on Left and Right Hands Performance. In *Proceedings of the Human Factors and Ergonomics Society 60th International Annual Meeting* (pp. 830-834). Washington DC: HFES.
18. **Chen, J.**, Ge, H., Yang, W., Li, N., & Proctor, R. W. (2016). Display of Major Risk Categories for Mobile Apps. In *Proceedings of the Human Factors and Ergonomics Society 60th International Annual Meeting* (p. 779). Washington DC: HFES.
19. Jorgenson, Z., **Chen, J.**, Gates, C., Li, N., Yu, T., & Proctor, R. W. (2015). Understanding and communicating risk for mobile applications. In *Proceedings of Fifth ACM Conference on Data and Application Security and Privacy* (pp. 49-60). New York, NY: ACM. (Acceptance Rate: 21%)
20. **Chen, J.**, Gates, C., Li, N., & Proctor, R. W. (2014). Framing of Summary Risk/Safety Information and App Selection. In *Proceedings of the Human Factors and Ergonomics Society 58th International Annual Meeting* (pp. 1461-1465). Santa Monica, CA: HFES.
21. **Chen, J.**, & Proctor, R. W. (2012). Up or Down: Directional Stimulus-Response Compatibility and Natural Scrolling. In *Proceedings of the Human Factors and Ergonomics Society 56th International Annual Meeting* (pp.1381-1385). Santa Monica, CA: HFES.
22. Gates, C., Li, N., **Chen, J.**, & Proctor, R. W. (2012). CodeShield: Towards Personalized Application Whitelisting. In *Proceedings of the 28th Annual Computer Security Applications Conference* (pp. 279-288). New York, NY: ACM. (Acceptance Rate: 19%)

Other Writings

Chen J. (2014). Advice for Students Publishing in HF/E. *HFES Bulletin*. 57, 8-9.
<http://www.hfes.org/web/HFESBulletin/nov2014Advice.html>

Invited Presentations

Human Perception of AI Capabilities in Automated Vehicles in the Context of Malicious Attacks
North Carolina State University, Raleigh, NC, March 2022

Human Factors in Semi-autonomous Driving Systems
Purdue University, West Lafayette, IN, October 2020

Safe and Secure Driver-Automation Interaction in Semi-Autonomous Driving Systems
Indiana University–Purdue University Indianapolis, Indianapolis, IN, March 2020
(postponed due to COVID-19)

How Human Factors Psychology Contributes to Safe Autonomous Driving
Representing American Psychological Association in the 25th Annual Coalition for National Science Funding (CNSF) Exhibition and Reception, April 2019
<http://advocacy.apascience.org/blog/2019/5/10/human-factors-psychologist-presents-research-on-capitol-hill>

The Role of Accentuation in the Selection and Rejection Task Framing Effect

American Psychological Association 2018 Convention, San Francisco, August 2018

Towards the Driver-Automation Interaction in Semi-autonomous Driving Systems

Department of Electrical and Computer Engineering, Old Dominion University, April 2018

Human Trust in Automation in a Phishing Context

Old Dominion University Cybersecurity Education & Research expo, September 2017

The Role of Human Factors in Cybersecurity

Computer Science Department, New Mexico State University, October 2015

On the Job Market: Steps and Lessons, Leading Presentation for Mini Job Search Panel

Psychology Department, New Mexico State University, November 2015

Conference Presentations (* indicates supervised graduate or undergraduate student)

1. Garcia*, K., Xiao, Y., Mishler*, S., Wang, C., Hu, B., & **Chen, J.** (2022). Identifying Perturbed Roadway Signs: Perception of AI Capabilities. Talk to be presented at the Human Factors and Ergonomics Society 66th International Annual Meeting. Atlanta, GA.
2. Mishler*, S. & **Chen, J.** (2022). Countering Driver Vigilance Decrement for Partially Automated Vehicles. Talk to be presented at the Human Factors and Ergonomics Society 66th International Annual Meeting. Atlanta, GA.
3. Taylor*, S., Garcia*, K., **Chen, J.**, & Hu, B. (2022). Adaptive Task Allocation Preferences in Different Workload Scenarios when Driving Level 2 and Level 3 Automated Vehicles. Poster to be presented at the Human Factors and Ergonomics Society 66th International Annual Meeting. Atlanta, GA.
4. Garcia*, K., Mishler*, S., & **Chen, J.** (2021). Flood warnings through a mobile navigation application: Effects of time pressure and flood information type. Talk presented at the Human Factors and Ergonomics Society 65th International Annual Meeting. Baltimore, MD.
5. Ammons*, J., Parker*, C., & **Chen, J.** (2021). Effects of Time Pressure and User Ratings for Online Shopping. Talk presented at the Human Factors and Ergonomics Society 65th International Annual Meeting. Baltimore, MD.
6. Mishler*, S., Garcia*, K., Fuller-Jakaitis*, E., Wang, C., Hu, B., Still, J., & **Chen, J.** (2021). Predicting A Malicious Stop Sign: Knowledge, Exposure, Trust in AI. Talk presented at the Human Factors and Ergonomics Society 65th International Annual Meeting. Baltimore, MD.
7. Garcia*, K., Xiao, Y., Mishler*, S., Wang, C., Hu, B., & **Chen, J.** (2021). Human Perception of AI Capabilities in Identifying Malicious Roadway Signs. Poster presented at the APA Conference on Technology, Mind & Society. [Virtual]
8. Garcia*, K., Mishler*, S., & **Chen, J.** (2021). Design Flood Warnings for Drivers. Talk presented at the 29th Annual Conference of the Research Institute of Human Factors in Road Safety. [Virtual]
9. Parker*, C. & **Chen, J.** (2020). The Effects of Security Framing, Time Pressure, and Brand Familiarity on Risky Mobile Application Downloads. Talk presented at the Human Factors and Ergonomics Society 64th International Annual Meeting. [virtual]

10. Mishler*, S. & **Chen, J.** (2020). The Rise, Fall, and Repair of Trust for Automated Driving Systems. Talk presented at the Human Factors and Ergonomics Society 64th International Annual Meeting. [virtual]
11. Eure*, Q., & **Chen, J.** (2020). Factors that Influence City Micro-mobility: An Understanding of Campus E-Scooter Use. Poster presented at the 11th Annual ODU Undergraduate Research & Creativity Symposium. Norfolk, VA.
12. Mishler*, S., Jeffcoat*, C., & **Chen, J.** (2019). Effects of Anthropomorphic Phishing Detection Aids, Transparency Information, and Feedback on User Trust, Performance, and Aid Retention. Talk presented at the Human Factors and Ergonomics Society 63rd International Annual Meeting. Seattle, WA.
13. McManus*, W. & **Chen, J.** (2019). The Effects of Vehicle Automation Level and Warning Type on Responses to Vehicle Hacking. Talk presented at the Human Factors and Ergonomics Society 63rd International Annual Meeting. Seattle, WA.
14. Unverricht, J., Yamani, Y., Yahoodik, S., **Chen, J.**, & Horrey, W. J. (2019). Attention Maintenance Training: Are Young Drivers Getting Better or Being More Strategic?. Talk presented at the Human Factors and Ergonomics Society 63rd International Annual Meeting. Seattle, WA.
15. Mishler*, S., Jeffcoat*, C., Šabić*, E., Yamaguchi, M., & **Chen, J.** (2019). Collision or Avoidance: Should Auditory Warnings Be Toward Danger or Toward Safety?. Talk presented at the APA Conference on Technology, Mind, and Society, Washington, DC.
16. McManus*, W., **Chen, J.**, & Yamani, Y. (2019). The Effects of Vehicle Automation Level and Warning Type on Responses to Vehicle Hacking. Poster presented at the APA Conference on Technology, Mind, and Society, Washington, DC.
17. Mishler*, S., Jeffcoat*, C., & **Chen, J.** (2019). Effects of Anthropomorphic Phishing Detection Aids on User Trust and Performance. Poster presented at the American Psychological Association 127th Annual Meeting. Chicago, IL.
18. Jeffcoat*, C., **Chen, J.**, & Proctor, R. W. (2019). Influence of Verbal Protocol Requirements on the Task Framing Effects. Poster presented at the American Psychological Association 127th Annual Meeting. Chicago, IL.
19. **Chen, J.**, Mishler*, S., & Hu, B. (2018). Methods of Conveying Automation Reliability and Automation Error Type Affect User Performance and Trust in a Phishing-Detection System. Talk presented at the Human Factors and Ergonomics Society 62nd International Annual Meeting. Philadelphia, PA.
20. Mishler*, S., & **Chen, J.** (2018). Driver's Type of Response to Auditory Car Warnings in a Semi-Autonomous Vehicle Mediates Safety. Talk presented at the Human Factors and Ergonomics Society 62nd International Annual Meeting. Philadelphia, PA.
21. McManus*, W., **Chen, J.**, Mishler*, S. (2018). Automated Vehicle Hacking: An Examination of Public Understanding and Brief Training. Poster presented at the APA Conference on Technology, Mind, and Society, Washington, DC.
22. Sabic*, E. & **Chen, J.** (2017). Left or Right: Auditory Collision Warnings for Driving Assistance Systems. Talk presented at Human Factors and Ergonomics Society 61st International Annual Meeting, Austin, TX.
23. Mishler*, S., **Chen, J.**, Sabic*, E., Hu, B. Li, N., & Proctor, R. W. (2017). Description-Experience Gap: The Role of Feedback and Description in Human Trust in Automation.

- Talk presented at Human Factors and Ergonomics Society 61st International Annual Meeting, Austin, TX.
24. Mishler*, S., **Chen, J.**, Sabic*, E., Hu, B. Li, N., & Proctor, R. W. (2017). Trust the Warning: How Differences in Automation Design Influence User's Trust and Performance for a Difficult Task. Talk presented at 8th International Conference on Applied Human Factors and Ergonomics, Los Angeles, CA.
 25. **Chen, J.** & Yamaguchi, M. (2016). Flowers and Spiders in the SRC and Simon Tasks: Response Selection or Mapping Selection? Poster presented at 57th Annual Meeting of the Psychonomic Society, Boston, MA.
 26. **Chen, J.**, Proctor, R. W., & Li, N. (2016). Human Trust in Automation in a Phishing Context. Talk presented at 46th Annual Meeting of the Society for Computers in Psychology (SCiP), Boston, MA.
 27. **Chen, J.**, Seibold, J.C., Zhong, Q., Müsseler, J., & Proctor, R. W. (2016). Do Visuospatial Reference Frames Produce Performance Asymmetries in the Simon Task? Evidence from Hand- and Foot-Press Responses. Poster presented at 57th Annual Meeting of the Psychonomic Society, Boston, MA.
 28. Sabic*, E. & **Chen, J.** (2016). Threshold of Spearcon Recognition for Auditory Menus. Talk presented at the Human Factors and Ergonomics Society 60th International Annual Meeting. Washington DC.
 29. Young*, T., **Chen, J.**, & Shentu*, Z. (2016). Effect of Cursor Orientation on Left and Right Hands Performance. Talk presented at the Human Factors and Ergonomics Society 60th International Annual Meeting. Washington DC.
 30. **Chen, J.**, Ge, H., Yang, W., Li, N., & Proctor, R. W. (2016). Display of Major Risk Categories for Mobile Apps. **Talk** presented at the Human Factors and Ergonomics Society 60th International Annual Meeting. Washington DC.
 31. **Chen, J.**, Xiong, A., Li, N., & Proctor, R. W. (2016). *The Description-Experience Gap in the Effect of Warning Reliability on User Trust, Reliance, and Performance in a Phishing Context*. Talk presented at 7th International Conference on Applied Human Factors and Ergonomics. Orlando, FL.
 32. Moore, S., Ge, H., Li, N., **Chen, J.**, Proctor, R. W. (2016). *Display of Major Risk Categories for Android App*. Poster presented at the CERIAS (Center for Education and Research in Information Assurance and Security) 2016 Symposium.
 33. **Chen, J.** (2015). *Selection versus Rejection: The Role of Task Framing in Decision Making*. Poster presented at 56th Annual Meeting of the Psychonomic Society, Chicago, IL.
 34. **Chen, J.**, Yang, W., Xiong, A., Li, N., & Proctor, R. W. (2015). *Warning Users of Phishing Attacks with a Google Chrome Extension*. Talk presented at Human-Computer Interaction International 2015, Los Angeles, CA.
 35. Jorgenson, Z., **Chen, J.**, Gates, C., Li, N., Yu, T., & Proctor, R. W. (2015). *Understanding and communicating risk for mobile applications*. Talk presented at Fifth ACM Conference on Data and Application Security and Privacy. New York, NY.
 36. Proctor, R. W., **Chen, J.**, Gates, C., Li, N., Jorgensen, Z., & Yu, T. (2015). *Displaying Major Risks Factors Associated with Android Apps*. Talk presented at 6th International Conference on Applied Human Factors and Ergonomics, Las Vegas, NV.

37. Yang, W., **Chen, J.**, Xiong, A., Proctor, R. W., & Li, N. (2015). *Effectiveness of a Phishing Warning in Field Settings*. Poster presented at Symposium and Bootcamp on the Science of Security (HotSoS), Urbana, IL.
38. Chen, H., Chowdhury, O., **Chen, J.**, Li, N., & Proctor, R. W. (2015). *Towards Quantification of Firewall Policy Complexity*. Poster presented at Symposium and Bootcamp on the Science of Security (HotSoS), Urbana, IL.
39. **Chen, J.**, Gates, C., Jorgensen, Z., Yang, W., Xiong, A., Li, N., Yu, & Proctor, R. W. (2015). *Effective Risk Communication for End Users: A Multi-granularity Approach*. Poster presented at the Women in CyberSecurity (WiCyS) Conference, Atlanta, GA.
40. **Chen, J.**, Gates, C., Li, N., & Proctor, R. W. (2014). *Framing of Summary Risk/Safety Information and App Selection*. Talk presented at 58th International Annual Meeting of the Human Factors and Ergonomics Society, Chicago, IL.
41. **Chen, J.**, Gates, C., Li, N., & Proctor, R. W. (2014). *Effective Communication of Risks for Android Apps: Influence of Summary Risk Information and Framing*. Talk presented at 44th Annual Meeting of the Society for Computers in Psychology (SCiP), Long Beach, CA.
42. **Chen, J.**, & Proctor, R. W. (2014). *Morin and Grant (1955) Revisited: Influence of Action-Effect Feedback on Learning*. Poster presented at 55th Annual Meeting of the Psychonomic Society, Long Beach, CA.
43. **Chen, J.**, Gates, C., Li, N., & Proctor, R. W. (2014). *Decision Making in Android App Selection: Influence of Risk/Safety Framing*. Poster presented at 55th Annual Meeting of the Psychonomic Society, Long Beach, CA.
44. **Chen, J.**, Song, X., & Proctor, R. W. (2013). *Grasping Affordance or Feature Asymmetry in Correspondence Effects for Flashlights*. Poster presented at 54th Annual Meeting of the Psychonomic Society, Toronto, Canada.
45. **Chen, J.**, & Proctor, R. W. (2013). *Intuitive design for non-touch screen scrolling: Evidence from a continuous text-movement task*. Talk presented at HCI International 2013, Las Vegas, NV.
46. **Chen, J.**, Gates, C., Li, N., & Proctor, R. W. (2013). *Summary Risk Information Improves App Selection Decisions*. Poster presented at the IE GSO Symposium 2013.
47. Gates, C., **Chen, J.** (presenter), Li, N., & Proctor, R. W. (2013). *Effective Risk Communication for Android Apps*. Poster presented at the CERIAS (Center for Education and Research in Information Assurance and Security) 2013 Symposium.
48. **Chen, J.**, & Proctor, R. W. (2012). *Up or Down: Directional Stimulus-Response Compatibility and Natural Scrolling*. **Talk** given at 56th International Annual Meeting of the Human Factors and Ergonomics Society, Boston, MA.
49. **Chen, J.**, & Proctor, R. W. (2012). *A Conceptual Response-Distance Effect for the Stroop Task*. Poster presented at 53rd Annual Meeting of the Psychonomic Society, Minneapolis, IN.
50. **Chen, J.**, & Proctor, R. W. (2012). *Key Distance not Hand Distance Influences the Stroop Color-Identification Effect*. Poster presented at 24th Annual Meeting of the Association for Psychological Science, Chicago, IL.
51. **Chen, J.**, & Proctor, R. W. (2012). *The Response Distance Effect in the Stroop Color-Identification Task: Key or Hand Separation?* Poster presented at Midwest Cognitive Science Conference, Bloomington, IN.

52. **Chen, J., & Proctor, R. W.** (2011). *Influence of Name-Identity on Physical Same-Different Letter Matching*. Poster presented at 52nd Annual Meeting of the Psychonomic Society, Seattle, WA.

Student Mentoring

Graduate Students:

1. Katie Garcia (PhD; 2020 – present)
2. Jeremiah Ammons (MS; 2020 – present)
3. Scott Mishler (PhD; 2016 – present)
4. Cody Jeffcoat (Cody Parker; MS; 2018 – 2020)
5. Wyatt McManus (MS; 2017 – 2019)
6. Edin Sabic (MA; 2015 – 2017)

Undergraduate Students:

- | | |
|---|---------------------------------------|
| 1. Eleanor Lynn-Manns (2022 REU) | 24. Nicole Taylor (2018) |
| 2. Kyle Canady (2022) | 25. Tasneem Abdur-Rahman (2018) |
| 3. Manuela Urbanske Donnelly (2022) | 26. Julie Andersen (2018) |
| 4. Kayla Wall-Green (2022) | 27. Sage Sheetz (2018) |
| 5. Alexa Quesnel (2021-2022; 22 REU) | 28. Khaila Taylor (2018) |
| 6. Kaia Barr (2021) | 29. David Young (2017) |
| 7. Sky Taylor (2021 NSF REU) | 30. Lorenzo Lopez (2017) |
| 8. Zachary Aragon (2021) | 31. Yazmin Paz (2017) |
| 9. Rosie Edwards (2020) | 32. Suzanne Rockwell (2017) |
| 10. Jordan Davis (2019-2020) | 33. Ashley Ruiz (2017) |
| 11. Kevin Hernandez (2019-2020) | 34. Steven Archuleta (2016-2017) |
| 12. Qwe’Vontae R. Eure (2019-2020) | 35. Akuadasuo Ezenyilimba (2016-2017) |
| 13. Erin FullerJakaitis (2019-2020) | 36. Gabrielle Campbell (2016) |
| 14. Jeremiah Ammons (2018-2020;
Honors Thesis) | 37. Jaymison Miller (2016) |
| 15. Lauren Grgurovich (2019) | 38. Graham Strom (2016) |
| 16. Fern Prompravat (2019) | 39. Crystal Armendariz (2016) |
| 17. Pettie Perkins (2019) | 40. Bernadette Lopez (2016) |
| 18. Hannah Smith (2019 NSF REU) | 41. Johnathon Fray Denton (2016) |
| 19. Kyle Brinn (2018-2019) | 42. Berenice Cuevas (2016) |
| 20. Joseph Ciely (2018-2019) | 43. Crystal Hernandez (2016) |
| 21. Alexandra Cline (2018-2019) | 44. Mike Hatch (2015) |
| 22. Allegra Ayala (2018-2019) | 45. Zhange Shentu (2015) |
| 23. Faye Wakefield (2018-2019) | 46. Jonathan Zayan (2015) |

Service

Old Dominion University

Service to Department

August 2021-February 2022 **Member** of the Search Committee for a new faculty line in Health Psychology, Department of Psychology

July 2021-May 2022	Member of Diversity, Inclusion, & Belonging Committee, Department of Psychology
May 2018-present	Faculty advisor to the Human Factors and Ergonomics Society Student Chapter
August 2017-present	Member of the Human Factors Concentration Committee, Department of Psychology
July 2019-December 2019	Member of the Space Committee Department of Psychology
July 2018-September 2020	Member of the Honors Committee Department of Psychology
July 2018-July 2019	Member of the 316-317-318 Development Committee Department of Psychology
April 2019	Invited Panelist: Graduate School in Psychology Panel

Service to University

August 2018-present	Member of the University Women's Caucus, ODU
August 2017-present	Member of the University Asian Caucus, ODU
December 2019	Faculty Marshal: ODU 129 th Commencement Ceremony
December 2017	Faculty Marshal: ODU 127 th Commencement Ceremony

New Mexico State University

May 2017-July 2017	Faculty Mentor: BIGData Research Experience for Undergraduates (REU) program
September 2015-August 2017	Faculty Co-advisor to the Human Factors and Ergonomics Society Student Chapter
April 2017	Faculty Judge: College of Arts & Sciences 2017 3-Minute Thesis Competition
2016-2017	Search Committee Member for a new faculty line in Engineering Psychology, Department of Psychology
2015-2016	Search Committee Member for a new faculty line in Engineering Psychology, Department of Psychology
August 2015-August 2017	Member of the Scholarly Affairs Committee, Department of Psychology

Student Committee

Doctoral Dissertation Committee

Scott Mishler (Human Factors Psychology; **Chair**) – ODU
Yaser Hamed Sendi (Computational Modeling and Simulation Engineering) – ODU
John W. Harden (Human Factors Psychology) – ODU
Molly M. Liechty (Human Factors Psychology) – ODU
Ashley Cain (Human Factors Psychology) – ODU
Sultan Alharthi (Computer Science and Psychology) – NMSU

PhD Comprehensive Exams Committee

Scott Mishler (Human Factors Psychology; **Chair**) – ODU

Sarah Yahoodik (Human Factors Psychology) – ODU
James Unverricht (Human Factors Psychology) – ODU
John Hicks (Human Factors Psychology) – ODU
Ryan Sams (Psychology) – NMSU
Collin Scarince (Psychology) – NMSU
Tara Young (Psychology) – NMSU

Master's Thesis Committee

Katherine Garcia (Psychology; **Chair**) – ODU
Jeremiah Ammons (Psychology; **Chair**) – ODU
Cody Jeffcoat (Cody Parker; Psychology; **Chair**) – ODU
Wyatt McManus (Psychology; **Chair**) – ODU
Scott Mishler (Psychology; **Chair**) – ODU
Kristen Egger (Psychology) – ODU
Janine Mator (Psychology) – ODU
Rick Hayes (Psychology) – ODU
John Mart V. DelosReyes (Psychology) – ODU
James Unverricht (Psychology) – ODU
Ekaterina Shurkova (Psychology) – ODU
Edin Sabic (Psychology; **Chair**) – NMSU
Elizabeth Kaltenbach (Psychology) – NMSU
Jessica Madrid (Psychology) – NMSU

Honors Thesis Committee

Jeremiah Ammons (Psychology; **Chair**) – ODU
– Winner of *Alan Chaiken Undergraduate Honors Thesis Award*
Qwe'Vontae R. Eure (Psychology; **Chair**; not completed due to COVID-19) – ODU
Rachel J. Davis (Psychology) – ODU
Brooke M. Puharic (Psychology) – ODU
Sidney T. Scott-Sharoni (Psychology) – ODU

Professional Service

2021 – present	Secretary-Treasurer: American Psychological Association (APA) Division 21
2021	Invited Expert Panelist: International Conference on Auditory Display (ICAD) 2021 <i>ThinkTank</i>
2019-2021	APA Metrics and Measurement Advisory Group: APA
2021	Associate Chair: AutomotiveUI Technical Program Committee
2018, 2019, 2021	Senior Program Committee: APA Conference on Technology, Mind, and Society (TMS)
2020	Reviewer: Virginia Commonwealth Cyber Initiative (CCI) Proposals
2018	Committee member: Scholarship Committee for Women in Cybersecurity (WiCyS)
2022 – present	Editorial Board: The American Journal of Psychology

2016 – present	Editorial Board: The Journal of General Psychology
2016 – present	Editorial Board: Frontiers in Psychology: Cognition
2018	NSF Advisory Review Panel: Division of Information and Intelligent Systems
2018	NSF Advisory Review Panel: Division of Information and Intelligent Systems (different panel from the one above)
2017	NSF Advisory Review Panel: Division of Computer and Network Systems
2016	NSF Advisory Review Panel: Division of Information and Intelligent Systems

Ad hoc Reviews

Advances in Cognitive Psychology; American Journal of Psychology; Applied Ergonomics; Chinese Science Bulletin; Computing Surveys; Ergonomics; IEEE Transactions on Cognitive Communications and Networking; International Journal of Human-Computer Interaction; International Journal of Industrial Ergonomics; Journal of Cognitive Engineering and Decision Making; Journal of Cognitive Psychology; Journal of Experimental Psychology: Learning, Memory, and Cognition; Journal of General Psychology; Journal on Multimodal User Interfaces; Human Factors; Quarterly Journal of Experimental Psychology; Theoretical Issues in Ergonomics Science; Proceedings of the Human Factors and Ergonomics Society International Annual Meeting; Proceedings of the SIGCHI Conference on Human Factors in Computing Systems; Proceedings of the ACM/IEEE International Conference on Human-Robot Interaction

Membership in Professional Societies

Association for Computing Machinery
Association for Psychological Science
American Psychological Association
Human Factors and Ergonomics Society
IEEE Systems, Man, and Cybernetics Society
Psychonomic Society (Fellow since 2022)

Community Engagement

October 2020	Bite of Science – Hampton Roads: Presented <i>Bite of Human Factors Psychology: Improve Safety for Semi-autonomous Driving Systems</i> to middle and high school STEM teachers; hosted by Center for Excellence in Education, designed to improve teachers' ability to provide students a context of how science is applied in the real world and to pique student interest in STEM careers in the region
April 2019	CNSF Annual Exhibition on Capitol Hill: Presented <i>How Human Factors Psychology Contributes to Safe Autonomous Driving</i> at the Coalition for National Science Funding (CNSF) Annual Exhibition on

- July 2019 Capitol Hill, and visited offices of congressional members, highlighting the importance of NSF funding in advancing science
EVMS Youth Engagement Program: Organizing ODU lab tours for the Eastern Virginia Medical School Youth Engagement Program for students age 14-16 from under-resourced families
- January 2019 **Safe Autonomous Driving Activities:** Organizing *Safe Autonomous Driving* activities for preK-K students at the ODU Children's Learning and Research Center
- March 2017 **NMSU STEAM (STEM + Art) Night:** Research showcase in the NMSU STEAM (STEM + Art) Night event to local K-12 students and families

Research in the Press

Research on autonomous vehicles featured by **American Psychological Association (APA) Science Advocacy**

- *Human factors psychologist presents research on Capitol Hill*

<http://advocacy.apascience.org/blog/2019/5/10/human-factors-psychologist-presents-research-on-capitol-hill>

Research on mobile risk communication featured by **National Science Foundation (NSF) Discoveries**

- *Experts identify easy way to improve smartphone security*

http://www.nsf.gov/discoveries/disc_summ.jsp?cntn_id=133144

Research on natural scrolling featured by **Financial Times (FT)**

- *It's only natural to ask if there is an app for that*

<http://www.ft.com/cms/s/0/778646c46a7411e48fca00144feabdc0.html?siteedition=intl#axzz4I6AKUNBy>