

Susan Joslyn

CURRICULUM VITAE

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Education

- Doctor of Philosophy, University of Washington 1995
Dissertation advisor: Earl Hunt,
Title: Individual Differences in Time Pressured Decision Making
- Master of Science in Psychology, University of Washington 1994
Title: Two Measures of Emergency Responding
- Bachelor of Arts in Philosophy, 1975
University of Washington, Seattle WA

Awards

- APA Division 21 Raymond S. Nickerson Award for 2012
Best 2012 Paper in the Journal of Experimental
Psychology: Applied 2012
- New Investigator Award Division of Experimental Psychology 1999
for 'Evaluating individual differences in response to time pressure
situations.' American Psychological Association

Professional Experience

- Professor, Department of Psychology 2021-present
University of Washington, Seattle WA
- Associate Professor, Department of Psychology 2013-2020
University of Washington, Seattle WA
- Assistant Professor, Department of Psychology 2010-2013
University of Washington, Seattle WA
- Senior Lecturer, Department of Psychology 2002–2010
University of Washington, Seattle WA
- Lecturer, Department of Psychology 1995-2002
University of Washington, Seattle WA

Funded Grant Proposals

NATIONAL OCEANIC ATMOSPHERIC ASSOCIATION Public Interpretation and Use of Evolving Probabilistic Tornado Forecasts in the Southeastern United States PI-Sonia Savelli; Co PI-Susan Joslyn , Julie Demuth, Rebecca Morse	2020-2023 \$399,559
NATIONAL SCIENCE FOUNDATION Corona Virus Risk Communication: How Age and Communication Formats Effect Risk Perception and Behaviors PI-Sonia Savelli; Co PI-Susan Joslyn	2020-2022 \$49,000
NATIONAL SCIENCE FOUNDATION # 1948572 Science Communication for a Politically Charged Risk PI: Ann Bostrom, Co PI: Susan Joslyn	2020-2022 \$427,763
UNIVERSITY OF WASHINGTON BRIDGE GRANT Communicating Climate Science: A Cognitive Perspective PI: Susan Joslyn	2019-2020 \$100,000
NATIONAL OCEANIC ATMOSPHERIC ASSOCIATION # NA17OAR4590196 Understanding and Enhancing Public Interpretation of Probabilistic Tornado Warnings in the Southeastern United States PI-Sonia Savelli; Co PI-Susan Joslyn , Julie Demuth, Rebecca Morse	2016-2019 \$299,969
NATIONAL SCIENCE FOUNDATION #1430781 Perception of Climate Change: Implications For Climate Communication And Climate-Related Decision-Making PI: Susan Joslyn , <i>co-PI Ann Bostrom</i>	2014-2018 \$638,187
NATIONAL SCIENCE FOUNDATION 1559126 Improving Public Response to Weather Warnings <i>National Science Foundation</i> PI-Susan Joslyn	2014-2019 \$487,688
NATIONAL SCIENCE FOUNDATION #1559126 Communicating Weather Forecast Uncertainty and Improved Decision-Making Under Risk PI-Susan Joslyn	2010-2013 \$370,000
NATIONAL SCIENCE FOUNDATION #724721 PI- DRU: A Multi-disciplinary Approach to Communicating Weather Forecast Uncertainty PI-Susan Joslyn ; <i>Co PI Cliff Mass, Adrian Raftery, David Jones</i>	2008-2010 \$951,500

OFFICE OF NAVAL RESEARCH #N00014-C-0062 2002-2007
Multi-disciplinary University Research Initiative Grant: Integration and
Visualization of Multi-Source Information for Mesoscale Meteorology: \$5,086,055
Statistical and Cognitive Approaches to Visualizing Uncertainty.
*PI Adrian Rafferty; Co PI Cliff Mass, Earl Hunt, Susan Joslyn, Bob
Miyamoto & David Jones*

Research Interests

- Science Communication
- Decision making under uncertainty
- Time pressured decision-making

Publications

**Current or former graduate student or post-doc; +Current or former undergraduate student*

Joslyn, S. L., *Carlin, L. & Loftus E. F. (1997). Remembering and forgetting childhood sexual abuse, *Memory*, 5, 701-724.

Joslyn, S. L., Hunt, E. (1998). Evaluating individual differences in response to emergency situations. *Journal of Experimental Psychology: Applied*, 4, 16-43.

Loftus, E. F., **Joslyn, S. L., *Barbarini, D.** (1998). Repression: A mistaken impression? *Development and Psychopathology*, 10, 781-792.

Hunt, E., **Joslyn, S.L.** (2000). A functional task analysis of time-pressured decision making. In J.M. Schraagen, S. Chipman & V.J. Shalin (Eds), *Cognitive Task Analysis*, (pp. 119-132) Erlbaum: Mahwah, NJ

Joslyn, S. L., Loftus, E. F., +McNoughton, A., +Powers, J. (2001). Memory for memory. *Memory & Cognition*, 29, 789-797.

Joslyn, S., Schooler, J. W. (2006). Influences of the present on the past: The impact of interpretation on memory for abuse. In L.-G. Nilsson & N. Ohta (Eds.), *Memory and society: Psychological perspectives* (37–50). Psychology Press: Hove, Sussex, UK

Fischer, S. C., Morrin, K. A., **Joslyn, S.** (2003). Measuring multi-tasking ability. (No. ADA417039—DTIC). Department of Defense. 40 pages.
<https://apps.dtic.mil/sti/citations/ADA417039>

Joslyn, S. L.,*Oakes, M. A. (2005). Directed forgetting and autobiographical events. *Memory and Cognition*, 33(4), 577-587.

Fischer, S. C., Mautone, P. A., Morrin, K. A., **Joslyn, S.** (2005). Development of an abstract test

- of multi-tasking ability. Technical Report to ONR. 33 pages
- Morrin, K. A., Fischer, S. C., Mautone, P. D., **Joslyn, S.** (2005). Development of an abstract test of multi-tasking ability: Effect of response format. Technical Report to ONR. 27 pages
- Hunt, E., **Joslyn, S.** (2006). Stages of concern for laboratory, field, and social issues in applying cognitive psychology. In Hoffman, R. R. (Ed.) *Expertise out of context* (pp. 7-28) Erlbaum: Mahwah, NJ
- Joslyn, S.**, *Pak, K., Jones, D. +Pyles, J. & Hunt, E. (2007). The Effect of probabilistic information on threshold forecasts. *Weather & Forecasting*, 22 (4), 804–812.
- Joslyn, S.**, Jones, D. (2008). Strategies in naturalistic decision-making: A cognitive task analysis of naval weather forecasting. In J.M. Schraagen (Ed) In J.M. Schraagen, S. (Ed) *Naturalistic Decision Making and Macrocognition*. (pp. 183-201) Ashgate Publishing: Farnham, Surrey UK
- Joslyn, S.**, *Nadav-Greenberg, L., +Taing, M. U. (2009). The Effects of wording on the understanding and use of uncertainty information in a threshold forecasting decision. *Applied Cognitive Psychology*, 23 (1), 55-72.
- *Nadav-Greenberg, L., **Joslyn, S.**, +Taing, M.U. (2008). The effect of weather forecast uncertainty visualization on decision-making. *Journal of Cognitive Engineering and Decision Making*, 2 (1), 24-47.
- Hauswald, M., **Joslyn, S.L.** (2008). Qualitative approaches to the study of adverse events and near misses. *Journal of Academic Emergency Medicine*, 12, 1312-1314.
- Joslyn, S.**, *Nadav-Greenberg, L.,+Nichols, R. M. (2009). Probability of precipitation: Assessment and enhancement of end-user understanding. *Bulletin of the American Meteorological Society*, 90(2), 185-193.
- Joslyn, S.L.**, +Nichols, R.M. (2009). Probability or frequency? Expressing forecast uncertainty in public weather forecasts. *Meteorological Applications*, 90, 185-193.
- *Nadav-Greenberg, L., **Joslyn, S.** (2009). Uncertainty forecasts improve decision-making among non-experts, *Journal of Cognitive Engineering and Decision Making*, 2(1), 24-47.
- Mass C., **Joslyn S.**, +Pyle J., *Tewson P., Gneiting T., et al. (2009). PROBCAST: A Web-based portal to mesoscale probabilistic forecasts. *Bulletin of the American Meteorological Society*, 90(7), 1009-1014.
- Joslyn, S.**, *Savelli, S. (2010). Communicating forecast uncertainty: Public perception of weather forecast uncertainty. *Meteorological Applications*. 17, 180-195.

- *Eckel F. A., Glahn H. R., Hamill T. M., **Joslyn S.**, Lapenta W. M., Mass C. F. (2010) National Mesoscale Probabilistic Prediction: Status and the Way Forward. A White-Paper Report from the *National Workshop on Mesoscale Probabilistic Prediction*, 23-24.
- Joslyn, S.**, *LeClerc, J. (2011). Uncertainty forecasts improve weather-related decisions and attenuate the effects of forecast error. *Journal of Experimental Psychology: Applied*. 18(1):126-140.
- Joslyn, S.**, *Savelli, S., *Nadav-Greenberg, L., (2011). Reducing probabilistic weather forecasts to the worst-case scenario: Anchoring effects. *Journal of Experimental Psychology: Applied*. 17(4):342-353.
- *Savelli, S., **Joslyn, S.**, (2012). Boater safety: Communicating weather forecast information to high stakes end users. *Weather, Climate & Society*. 4, 7–19.
- *Savelli, S., **Joslyn, S.**, (2013). The Advantages of 80% Predictive Interval Forecasts for Non-Experts and the Impact of Visualizations. *Applied Cognitive Psychology*. 27 (4) 527-541
- Joslyn, S.**, *Nemec, L., *Savelli, S. (2013). The benefits and challenges of predictive interval forecasts and verification graphics for end-users. *Weather, Climate & Society*. 27, 572-541.
- *LeClerc, J., **Joslyn, S.**, (2012). Odds ratio forecasts increase precautionary action in severe weather events. *Weather, Climate & Society*, 4, 263–270.
- Joslyn, S.**, *LeClerc, J. (2013). Decisions with Uncertainty: The glass half full. *Current Directions in Psychological Science*, 22 (4) 308–315.
- Ebert, B. Brown, T. Fowler, P. Gill, M. Goeber, S. **Joslyn**, M. Mittermaier, P. Nurmi, A. Watkins, A. Weigel (2013) Progress and challenges in forecast verification. *Meteorological Applications*, Vol 20(2) 130-139.
- Bostrom, A. **Joslyn, S.** Pavia, R. Walker, A. Starbird, K., Leschine, T.M (2015) Methods for communicating the complexity and uncertainty of oil spill response actions and tradeoffs *Journal Human and Ecological Risk Assessment: An International Journal* 21 (3), 631-645.
- *LeClerc, J., **Joslyn, S.**, (2015). The cry wolf effect and weather-related decision making. *Risk Analysis*. 35 (3) 385-395. DOI: 10.1111/risa.12336
- Joslyn, S.**, *Grounds, M. (2015). The use of uncertainty forecasts in complex decision tasks and Various Weather Conditions, *Journal of Experimental Psychology: Applied* 21(4), 407-417.
- Joslyn, S.**, *LeClerc, J. (2016). Climate projections and uncertainty communication. *Topics in Cognitive Science*, 8(1), 222-241.

- *Ehlers, A; Drake, T; Kotagal, M; *Simianu, V; Achar C; Agrawal, N; **Joslyn, S**; Flum, D. (2016) Factors influencing delayed hospital presentation in patients with appendicitis: The APPE Survey. *Journal of the American College of Surgeons* 223(4) S108-S109
- *Simianu, V; *Grounds, M; **Joslyn, S**; *LeClerc, J; *Ehlers, A; Agrawal, N; Alfonso-Cristancho, R; Flaxman, A; Flum, D (2016) Understanding clinical and non-clinical decisions under uncertainty: a scenario-based survey. *BMC Medical Informatics and Decision Making* 16:153 DOI: 10.1186/s12911-016-039 pp. 1-3
- *Grounds, M; **Joslyn, S**; *Otsuka (2017) Probabilistic interval forecasts: An individual differences approach to understanding forecast communication, *Advances in Meteorology*, 2017. 1-18.
- *Grounds, M. **Joslyn, S.**, *LeClerc, J. (2018) Expressing flood likelihood: Return period versus probability, *Weather Climate and Society* 10 (1) 5-17.
- *Grounds, M. **Joslyn, S.** (2018) Communicating weather forecast uncertainty: Do individual differences matter? *Journal of Experimental Psychology: Applied* 24(1), 18-33.
- *Losee, J. **Joslyn, S.** (2018) The need to trust: How features of the forecasted weather influence forecast trust. *International Journal of Risk Reduction*.
<https://doi.org/10.1016/j.ijdr.2018.02.032>
- Joslyn, S.** (2019) “The other uncertainty: Uncertainty in communication.” In “Chancing the Storm.” Series, *Items: Insights from the Social Sciences*. <https://items.ssrc.org/chancing-the-storm/the-other-uncertainty-the-view-from-disaster-history/>
- Joslyn, S.**, *Demnitz, R. (2019) Communicating climate change: Probabilistic expressions and concrete events. *Weather, Climate and Society*. Vol. 11, No. 3, pp. 651-664.
- *Demnitz, R., **Joslyn, S.** (2020) The effects of recency and uncertainty estimates on overcautiousness. *Weather, Climate and Society* Vol. 12 Issue 2, 309-322.
<https://journals.ametsoc.org/doi/pdf/10.1175/WCAS-D-19-0115.1>
- *Burgeno, J., **Joslyn, S.** (2020) The impact of weather forecast inconsistency on user trust. *Weather, Climate and Society*. 12(4), 679–694, <https://doi.org/10.1175/WCAS-D-19-0074.1>
- +Su, C, *Burgeno, J., **Joslyn, S.** (2020) The effects of consistency among simultaneous forecasts on weather-related decisions, *Weather, Climate and Society*. 1–30,
doi:<https://doi.org/10.1175/WCAS-D-19-0089.1>
- Joslyn, S.**, *Demnitz, R. (2021) Explaining the How Long CO² Stays in the Atmosphere: Does It Change Attitudes. *Journal of experimental psychology. Applied*, 27(3), 473–484.
<https://doi.org/10.1037/xap0000347>

- *LeClerc, J., **Joslyn, S.** (in preparation) The Impact of probabilistic seasonal climate predictions and outcome feedback on decision making. *Weather, Climate and Society*
- Joslyn, S.**, *Savelli, S. Visualizing Uncertainty: The challenge of the deterministic construal error (2021) Special Issue: Uncertainty Visualization and Decision Making; Special Issue: Uncertainty Visualization and Decision Making; *Frontiers in Psychology*. *Frontiers in Computer Science*, 27, <https://www.frontiersin.org/article/10.3389/fcomp.2020.590232>
- Joslyn, S.**, *Savelli, S., Duarte, H. A., *Burgeno, J., *Qin, C., *Han, J. H., *Gulacsik, G. (2021) COVID-19: Risk perception, Risk Communication and Behavioral Intentions. *Journal of Experimental Psychology Applied*. Dec;27(4):599-620. doi: 10.1037/xap0000398.
- Joslyn, S.**, Sinatra, G. M., & Morrow, D. (2021). Risk perception, decision-making, and risk communication in the time of COVID-19. *Journal of experimental psychology. Applied*, 27(4), 579–583. <https://doi.org/10.1037/xap0000407>
- *Gulacski, G., **Joslyn, S.**, *Robinson, J., *Qin, C (2022) Do Advisories, Warnings, or Color Coding Matter to Risk Perception and Precautionary Decisions? *Weather, Climate & Society* 569–583 DOI: <https://doi.org/10.1175/WCAS-D-21-0070.1>
- Fischhoff, B., **Joslyn, S.**, Limaye, R., Murphy, S (2022). Supporting Individual Risk Assessment during COVID-19. Washington, DC: The National Academies Press. <https://doi.org/10.17226/26629>.
- *Gulacsik, G., **Joslyn, S.**, Robinson, J., Qin, C (2022) Communicating Uncertainty Information in a Dynamic Decision Environment, *Weather, Climate & Society* . Oct2022, Vol. 14 Issue 4, p1201-1216. 1201-1216
- Joslyn, S.**, *Qin, C., *Savelli, S, Demuth, J., Morss, R., Ash, K. (in press) The Impact of Color-Coded Probabilistic Tornado Warnings on Risk Perceptions and Response. *Journal of Experimental Psychology Applied*
- *Burgeno, J., **Joslyn, S.** (2023) The Impact of Forecast Inconsistency and Probabilistic Forecasts on Users' Trust and Decision-Making. *Weather, Climate & Society*. DOI 10.1175/ WCAS-D-22-0064.1
- *Qin, C., **Joslyn, S.**, Savelli, S., Demuth, J., Morss, R., & Ash, K. (2023). The impact of probabilistic tornado warnings on risk perceptions and responses. *Journal of Experimental Psychology: Applied*. Advance online publication. <https://doi.org/10.1037/xap0000486>
- Joslyn, S.**, *Qin, C., *Han, J. H., *Savelli, S., & Agrawal, N. (2023). Reducing vaccine hesitancy by explaining vaccine science. *Journal of Experimental Psychology: Applied*, 29(3), 489–528. <https://doi.org/10.1037/xap0000464>

Presentations at Scientific Meetings

Refereed Presentations

- Joslyn, S.L., Hunt, E. & Sanquist, T. (1994).** Individual differences in time-pressured decision-making. Poster presented at the Annual Meeting of the Psychonomics Society, St Louis, MO.
- Joslyn, S. L., Hunt, E., Schwemmler, M. & Waller, D. (1996).** Evaluating individual differences in response to emergency situations. Presentation at the Annual Meeting of the Psychonomics Society, Chicago, IL.
- Hunt, E., **Joslyn, S.L. (1997).** A functional task analysis of time-pressured decision making. Workshop on Cognitive Task Analysis. Washington D.C.
- Leveson, N., Hunt, E. **Joslyn, S. et al. (1997).** Demonstration of a Safety Analysis on a Complex System. Twenty-second Annual Software Engineering Workshop, NASA Goddard.
- Schooler, J. & **Joslyn, S.L. (2001).** Impact of the present on the memory for the past: Framing effects in memory for sexual abuse. One hundred and ninth Annual Meeting of the American Psychological Association, San Francisco, CA.
- Joslyn, S. L. & Oakes*, M. A. (2002).** Directed Forgetting and Autobiographical Events Presentation at the Annual Meeting of the Psychonomics Society, Kansas City, KS.
- Joslyn, S., Schweitzer, K., & Hunt, E. (2003).** Naturalistic decision making: A cognitive task analysis of naval weather forecasting. Presentation at The Society for Applied Research in Memory and Cognition) Fifth Biennial Conference, Aberdeen University, Scotland
- Hunt, E. & **Joslyn, S. (2003).** Stages of Concern for Laboratory, Field, and Social Issues in Applying Cognitive Psychology. Presentation at the 6th International Conference of Naturalistic Decision Making, Pensacola Beach, FL.
- Hunt, E., **Joslyn, S., Schweitzer, K., Pyles, J., & Jones, D. (2003).** Cognitive analysis of naval weather forecasting. Presentation to Naval Meteorology & Oceanography Command. Seattle, WA.
- Jones, D., & **Joslyn, S. (2004).** The MURI Uncertainty Monitor. Presentation at The 84th American Meteorological Society Meeting, Seattle, WA.
- Oakes*, M., **Joslyn, S., Silverman*, M. & Nadav-Greenberg*, L. (2004).** Directed forgetting and autobiographical memories: Sensitivity to event details. Presentation at the Annual Meeting of the Psychonomics Society, Minneapolis, MN.
- Joslyn, S., Hunt, E & Schweitzer*, K (2005)** The Impact of Probabilistic Information on Deterministic & Threshold Forecasts Presentation at the 7th International Conference of Naturalistic Decision Making, Amsterdam, the Netherlands.
- Joslyn, S., Jones, D., Schweitzer+, K, Pyles+, J. & Tewson+, P. (2005).** Designing Tools for Uncertainty Estimation in Naval Weather Forecasting. Presentation at the 7th

International Conference of Naturalistic Decision Making, Amsterdam, the Netherlands.

Joslyn, S. (2006). Use of Uncertainty Information in Deterministic Weather Forecasting Decisions. Joint Statistical Meetings in Seattle, WA.

Joslyn, S. L., Nadav-Greenberg*, L. & Taing*, M. (2006). Wording effects on the understanding and use of uncertainty information. Presentation at the Annual Meeting of the Psychonomics Society, Houston, TX.

Nadav-Greenberg*, L., **Joslyn, S.L., & Taing*, M.** (2007). The effect of uncertainty visualizations on decision-making in weather forecasting. Presentation at the 8th International Conference of Naturalistic Decision Making, Pacific Grove, CA.

Nichols*, R. M., **Joslyn, S. L., Nadav-Greenberg*, L.** (2007). Wording uncertainty information in probabilistic weather forecasts. Northwest Cognition and Memory, Vancouver, BC, Canada.

Fischer, S., Morrin, K., Mautone, P. & **Joslyn, S.** (2008). Multi-Tasking Is More Than Fluid Intelligence and Working Memory. Association for Psychological Science, Chicago, IL.

Chen*, Q., **Joslyn, S., Nadav-Greenberg*, L., & Savelli*, S.** (2008). Anchoring effects in weather forecasts. Northwest Cognition and Memory, Seattle, WA.

Savelli*, S., **Joslyn, S., Nadav-Greenberg*, L. & Chen*, Q.,** (2008). Presenting only the worst-case scenario in probabilistic weather forecasts: Anchoring effects. Presentation at the Annual Meeting of the Psychonomics Society, Chicago, IL.

Joslyn, S. & Savelli*, S., (J2009). Visualizing Temperature Forecast Uncertainty for a Non-expert Web Audience. Presentation at the Naturalistic Decision-Making 9th Biannual Conference in London, England.

Joslyn, S., Savelli*, S., & Nadav-Greenberg*, L. (2009). Impact of forecast uncertainty on Decisions Involving Costs and Losses. Presentation at the Society for Applied Research on Memory and Cognition 7th Biannual Conference in Kyoto, Japan.

LeClerc*, J. **Joslyn, S.,** (2009). Role of Uncertainty Information and Forecast Error in Weather-Related Decision Making. Presentation at the Annual Meeting of the Psychonomics Society, Boston, MA.

Savelli*, S., **Joslyn, S.** (2010). Public Perception of Weather Forecasts. Pacific Northwest Weather Workshop, Seattle WA.

Joslyn, S., LeClerc*, J. (2010). The impact of forecast uncertainty on decision-making. Presentation at the Annual Meeting of the Psychonomics Society, St Louis, MS.

Nemec*, L., Savelli*, S., **Joslyn**, S. (2010). Can people understand verification information for probabilistic weather forecasts? Presentation at the 2010 Annual Meeting of the Psychonomics Society, St. Louis, MO.

Joslyn, S. (2010). A multi-disciplinary approach to communicating weather forecast uncertainty. Presentation at the Human and Social Dynamics Grantees Conference, Washington, DC.

LeClerc*, J. **Joslyn**, S., (2011). Effects of the Use of Uncertainty Estimates on Weather-Related Decision-Making. 91st Annual Meeting of the American Meteorological Society, Seattle, WA.

Joslyn, S. & Savelli* (2011). Visualization: Is it really the best way to communicate forecast uncertainty to non-expert end users? Presentation at the 10th International Conference on Naturalistic Decision Making, Orlando, FL.

LeClerc*, J., & **Joslyn**, S. (2011). Communicating forecast uncertainty for severe weather events. Presentation at the 10th International Conference on Naturalistic Decision Making, Orlando, FL.

Savelli*, S. & **Joslyn**, S. (2011). Reducing probabilistic weather forecast uncertainty to the worst-case scenario. Presentation at the National Unified Operational Prediction Capability (NUOPC) Workshop. Seattle, WA.

Savelli*, S. & **Joslyn**, S. (2011). Does anchoring affecting a numeric estimate also affect decisions based on that estimate. Presentation at the 2011 Annual Meeting of the Society for Judgment and Decision Making, Seattle, WA.

LeClerc*, J., & **Joslyn**, S. (2011). Decision making in severe weather uncertainty: Climatological odds and advice. Presentation at the 2011 Annual Meeting of the Psychonomics Society, Seattle, WA.

Joslyn, S. & Savelli*, S (2011) Communicating Forecast Uncertainty: Visualization Doesn't Always Help. Presentation at the 2011 Annual Meeting of the Psychonomics Society, Seattle, WA.

Joslyn, S., Grounds*, M., LeClerc*, J. (2012) The Effects of Communication Formats and Decisions in Different Weather Situations. Presentation at the 2012 Annual Meeting of the Psychonomics Society, Minneapolis, MN.

LeClerc*, J., **Joslyn**, S. (2012) Uncertainty Estimates and the Interpretation of Climate Change Forecasts. Presentation at the 2012 Annual Meeting of the Psychonomics Society, Minneapolis, MN.

LeClerc*, J., & **Joslyn**, S. (2012). Odds ratio forecasts increase precautionary action for severe weather events. Presentation at the 2012 Northwest Weather Workshop, Seattle, WA.

- Joslyn, S., & LeClerc*, J.** (2013). The “Cry Wolf” Effect and weather related decision making. Presentation at the 11th International Conference on Naturalistic Decision Making, Marseilles, France.
- LeClerc*, J., **Joslyn, S.** (2013) Improving Compliance with Weather Warnings. Presentation at the 2013 Annual Meeting of the Psychonomics Society, Toronto, Canada.
- Ground*, M., **Joslyn, S.** (2013) Individual Differences in Interpreting Weather Forecast Uncertainty. Presentation at the 2013 Annual Meeting of the Psychonomics Society, Toronto, Canada.
- Joslyn, S.,** Ground*, M. & LeClerc*, J. (2014) *The Effects of Uncertainty Information, Recency and Feedback on Decision Making* Presentation at the 2014 Annual Meeting of the Psychonomics Society, Los Angeles, CA.
- Demnitz*, R., **Joslyn, S.** (2015) *Climate Forecasts and Climate Related Decisions and Perceptions* Presentation at the 2015 Annual Meeting of the Psychonomics Society, Chicago, Ill.
- Joslyn, S.,** Grounds*, M. (2015) *Probabilistic Weather Forecasts: Age, Education, and Numeracy* Presentation at the 2015 Annual Meeting of the Psychonomics Society, Chicago, Ill.
- Joslyn, S.,** Binz*, K. & Burgeno*, J (2017) The Effects of Forecast Consistency & Accuracy on Trust Presentation at the Pacific Northwest Weather Workshop NOAA Western Regional Center
- Burgeno*, J. & **Joslyn, S.** (2017) The Impact of Inconsistent Forecasts on User Trust Presentation at the Annual Meeting of the Psychonomics Society, Vancouver, BC.
- Losee*, J & **Joslyn, S.** (2017) The Need to Trust: How Features of the Forecasted Weather Increase Forecast Trust. Presentation at the Annual Meeting of the Psychonomics Society, Vancouver, BC.
- Demnitz*, R. & **Joslyn, S.** (2017) The Effects of Recent Events and Uncertainty Estimates on Decision Quality. Presentation at the Annual Meeting of the Society of Judgment and Decision-Making, Vancouver, BC.
- Galusic*, G., **Joslyn, S.** (2018) Warning Forecasts: Does Color Coding Help? Presentation at the Pacific Northwest Weather Workshop NOAA Western Regional Center
- Demuth, JL, S **Joslyn, S** Savelli*, C Qin*, R Morss, K Ash (2018). A 30% chance of a tornado?: Assessing public understanding, risk perception, and responses to probabilistic tornado warnings. Society for Risk Analysis annual meeting, 3 December, New Orleans, L

Demnitz*, R. & **Joslyn**, S. (2018) Communicating Global Warming Effectively. Presentation at the Annual Meeting of the Society for Judgment and Decision-Making, New Orleans, LA.

Galusic*, G., **Joslyn**, S. (2018) Communicating Warnings: Does Color-Coding Help? Presentation at the Annual Meeting of the Psychonomics Society, New Orleans, LA.

Burgeno*, J. & **Joslyn**, S. (2018) The Impact of Inconsistent Forecasts on Trust. Presentation at the Annual Meeting of the Society for Judgment and Decision-Making, New Orleans, LA.

Savelli*, S, **Joslyn**, S, Qin*, C, Demuth, J Morss, R, Ash, K (2019) Communicating Probabilistic Tornado Forecasts: Does Numeracy Matter? Presentation at the Annual Meeting of the Society for Judgment and Decision-Making, Montreal, CA.

Joslyn, S, Qin*, C, Savelli*, S, Demuth, J Morss, R, Ash, K (2020) The Impact of Color-Coded Probabilistic Tornado Warnings on Risk Perceptions and Response Presentation at the 100th annual meeting of the American Meteorological Society Meeting, Boston, MA.

Han*, J., **Joslyn**, S. (2020) The Effect of Numeric Uncertainty information on Complex Decisions. Presentation at the Annual Meeting of the Psychonomics Society, Zoom.

Qin*, C., **Joslyn**, S. Savelli, S (2020) Probabilistic Tornado Warnings Presentation at the Annual Meeting of the Society for Judgment and Decision-Making, Zoom.

Han*, J., **Joslyn**, S. (2022) The Advantages of Numeric Uncertainty Information in Complex Decision-Making Tasks. Presentation at the Meeting of the Society for Judgment and Decision-Making, San Diego.

Qin*, C., **Joslyn**, S. Savelli, S; DeMuth, J. Morse, R; Ash, K. (2020) Probabilistic Tornado Warnings Presentation at the Annual Meeting of the Society for Judgment and Decision-Making, San Diego.

Qin*, C., Han*, J., **Joslyn**, S. Savelli*, S; Agrawal, N. (2022) Reducing Vaccine Hesitancy by Explaining Vaccine Science Presentation at the Annual Meeting of the Psychonomics Society, San Diego.

Invited Presentations

Joslyn, S. (2005). Understanding and Using Uncertainty Information in Weather Forecasting. Presentation to the National Academy of Sciences committee on Estimating and Communicating Uncertainty in Weather and Related Forecasts. Boulder, CO.

Joslyn, S. L., (June, 2007). Understanding and using weather forecast uncertainty information.

Presentation at the workshop: Meteorology meets Decision Science: Risk, Forecast and Decision, Met Office, Exeter, United Kingdom.

Joslyn, S. (April, 2010). The Impact of Forecast Uncertainty on Decision Making. Presentation at the Hurricane Forecast Improvement Project (HFIP) Product Development workshop, National Center for Atmospheric Research (NCAR) Boulder, CO.

Joslyn, S. (August, 2010). Forecast Uncertainty and the End User. Presentation at DTC Ensemble Testbed (DET) Workshop, National Center for Atmospheric Research (NCAR) Boulder CO.

Joslyn, S. (June, 2010). Communicating uncertainty forecasts & verification to non-expert users. Verification Colloquium, National Center for Atmospheric Research (NCAR) Boulder, CO.

Joslyn, S. (August, 2011). Forecast Uncertainty and the End User. Presentation before the National Research Council Committee on the Assessment of the National Weather Service's Modernization Program, National Center for Atmospheric Research (NCAR) Boulder, CO.

Joslyn, S. (December, 2011). Keynote Presentation: Uncertainty Forecasts and the End-User 5th I International Verification Workshop, Bureau of Meteorology, Melbourne, Australia.

Joslyn, S. (December, 2011). Communication Uncertainty Forecasts to the End-User. Disaster Mitigation Program, Bureau of Meteorology, Melbourne, Australia.

Joslyn, S., Coleman, B., Stevenson, Eckle, T. Panel Discussion. How do we Communicate Uncertainty When Forecasts Change in Time? (2012) Presentation at the Northwest Weather Workshop, Seattle, WA.

Joslyn, S., (March, 2013). Uncertainty Forecasts and End-Users Keynote Address at the 2013 Northwest Weather Workshop, Seattle, WA.

Joslyn, S. (June 2014) Communicating Uncertainty Information. Address at the Battlespace Environment (QUBE) and the Navigation in Uncertainty (NiU) Advanced Research Challenge Workshop

Joslyn, S. & LeClerc*, J. (2014). Uncertainty Forecasts and the General Public. Presentation at the American Psychological Association Annual Meeting in Washington DC

Joslyn, S., (Sept, 2014). How Do People Understand Forecast Uncertainty, Presentation at PCC Summer Institute and Friday Harbor Lab Research Symposium

Joslyn, S., (May, 2015), Uncertainty Forecasts and General Public End Users, Presentation at 49th CMOS Congress & 13th AMS Conference on Polar Meteorology and Oceanography in Whistler, BC, Canada

Joslyn, S., (August, 2016), Uncertainty Forecasts and Non-Experts, Presentation at Max Plank Institute, Berlin Germany

- Joslyn, S.**, (November, 2016) Uncertainty Information for Everyday Users, Presentation at Zillow Corporation, Seattle, WA
- Joslyn, S.**, (January, 2017) The Cognitive Approach. Presentation to the National Academy of Science Committee on Advancing Social and Behavioral Science Research and Application within the Weather Enterprise. Seattle, WA
- Joslyn, S.**, (January, 2017) The Cognitive Approach to Interdisciplinary Work. Session 11B: Social Science, Communication, and the Weather Enterprise. Annual Meeting of the American Psychological Society Seattle, WA
- Joslyn, S.**, (May, 2017), Uncertainty Forecasts and Non-Expert End-Users, Keynote Presentation at Workshop for Computer-Human Interaction, Denver, CO
- Demuth, JL, S Savelli*, S **Joslyn**, C Qin*, R Morss, K Ash, H Lazrus, J Vickery, D Smith, K Anderson, L Palen, J Henderson, (2018). Risk, information, and vulnerability for evolving tornado threats. Presentation given at the American Meteorological Society Severe Local Storms conference, 25 October, Stowe, VT.
<https://ams.confex.com/ams/29SLS/webprogram/Paper348786.html>
- Joslyn, S.**, Demnitz*, R. (Sept, 2018). Psychological Effects of Climate Projections with Uncertainty Estimates, Invited Presentation at UW Program on Climate Change Summer Institute, " Sources of Uncertainty in Long-Term Climate Projections." Friday Harbor Lab Research Symposium
- Joslyn, S.** (January, 2019) The Other Uncertainty—Two Levels from a Cognitive Perspective, Invited Presentation at the 99th annual meeting of the American Meteorological Society Meeting, Phoenix, AZ.
- Joslyn, S.** (January, 2019) Consistency—A Psychological Perspective, Invited Presentation at the 99th annual meeting of the American Meteorological Society Meeting, Phoenix, AZ.
- Joslyn, S.** (June, 2019) Communicating Risk to End Users: A Cognitive Perspective. National Oceanic and Atmospheric Administration (NOAA) Science Advisory Board Environmental Information Services Working Group (EISWG), Washington, DC
- Savelli*, S. **Joslyn**, S. Qin*, C (Sept 2019) Understanding and Enhancing Public Interpretation and Use of Probabilistic Tornado Warnings in the Southeastern United States. VORTEX-SE Workshop, Huntsville, AL
- Joslyn, S.** (Sept, 2019) Decision-Making Under Uncertainty: Case Study and Experimental Research, One NOAA Seminar Series, Washington, DC
- Joslyn, S.** (October, 2019) "Communicating Weather Risk to End Users: A Cognitive Perspective". Mesoscale and Microscale Meteorology Laboratory, National Center for Atmospheric

Research, Boulder, CO <https://www.mmm.ucar.edu/seminar/2019-10-03-213000-communicating-weather-risk-end-users-cognitive-perspective>

Joslyn, S. (March 2020) Communicating Uncertainty, Invited address: The Value of Social Science Research in Weather Forecasting. NOAA Regional (Webinar)

Joslyn, S. Demuth, J. (May, 2020) Color-Coded Probabilistic Tornado Warnings: Do People Understand Them? Invited address: NOAA Regional (Webinar) [link](#)

Joslyn, S. (Sept, 2020) Uncertainty in Forecasts: A Psychological Perspective. Invited address: NOAA Western Region Science Officers (Webinar)

Joslyn, S. (Oct, 2020) Uncertainty in Forecasts: Communicating to Members of the Public. Invited address at the Communicating about High Impact Weather: Uncertainty, trust, and belief High Impact (Webinar). Weather Research Programme: World Meteorological Organization

Joslyn, S. (Feb, 2021) Uncertainty in Forecasts: A Psychological Perspective. Invited address: National Weather Service Arctic Testbed & Proving Ground in Anchorage Alaska. (Webinar)

Joslyn, S. (Sept, 2021) Uncertainty in Forecasts: A Psychological Perspective. Invited address: European Meteorological Society

Joslyn, S. (June, 2021) Communicating Climate Change: A Cognitive Perspective, Invited address Institut des sciences cognitives, Université du Québec à Montréal (UQAM)

Joslyn, S. (April, 2022) Science of Science Communication. Invited address National Strategic Computing Reserve (NSCR) Earth Systems Community Virtual Workshop

Savelli, S, **Joslyn, S.** Qin, C. Morse, R. Demuth, J (October, 2022) Public Interpretation and Use of Evolving Probabilistic Tornado Forecasts in Southeastern USA VORTEX-SE/VORTEX-USA Workshop, Santa Fe, NM

Media Coverage

“For many, meaning of rain forecast is cloudy at best” by Doyle Rice (2009) *USA Today*, *ABC News*, *King 5 News*, *Seattle Times*, *Bellingham Herald*, *Newslite*, *Red Orbt*, *Crosscut*, *Daily India*, *Tri-City Herald*, *Examiner*, *KIRO TV*, *KOMO News* Available at: <https://abcnews.go.com/Technology/story?id=7922204&page=1>

“Find weather forecasting confusing? You're not alone” (2009) *KHQ Q* Available at: https://www.khq.com/news/find-weather-forecasting-confusing-you-re-not-alone/article_07664420-7c03-5d82-9284-9272d9b3969e.html

“20% Chance of Rain, 100% Chance of Innumeracy” by Sharon Begley, (2009) *Boston Globe*; *Newsweek*. Available at: <http://www.sharonbegley.com/20-chance-of-rain-100-chance-of-innumeracy>

“Sunny and 72 degrees ... but not yet” by Frank Roylance; (2009) *Baltimore Sun*. Available at: https://www.baltimoresun.com/bs-mtblog-2009-04-sunny_and_72_degrees_but_not_y-story.html

“How ‘Crying Wolf’ in Bad Weather Warnings Erodes Public Compliance” (2015) *Insurance Journal*. Available at: <https://www.insurancejournal.com/news/national/2015/01/28/355667.htm>

“Bad weather warnings most effective if probability included, new research suggests” (2015) *Daily Science*. Available at: <https://www.sciencedaily.com/releases/2015/01/150127104844.htm>

“Why don't we believe extreme weather forecasts?” by Mike Riggs (2016) *FreeThink*. Available at: <https://www.freethink.com/articles/dont-believe-extreme-weather-forecasts>

“What's more important in a weather forecast: Accuracy? Or consistency?” by Scott Sistek (2017) *KOMO News*. Available at: <http://komonews.com/weather/scotts-weather-blog/whats-more-important-in-a-weather-forecast-accuracy-or-consistency>

“People will only tolerate so many false alarms!: Experts talk tropical Storm Gordon forecast”, By Steve Hardy (2018) *The Advocate*. Available at: <https://time.com/3685286/heres-the-one-simple-way-to-fix-weather-forecasts/>

“Severe weather alerts are intended to protect people. So why do some ignore them?” by Christie Aschwanden (2019) *The Washington Post*. Available at: https://www.washingtonpost.com/science/severe-weather-alerts-are-intended-to-protect-people-so-why-do-some-ignore-them/2019/11/22/b75aba66-063f-11ea-ac12-3325d49eacaa_story.html

“Seattleites ignore social distancing as coronavirus spreads”. By Lilly Fowler (2020) *Crosscut*. Available at: <https://crosscut.com/2020/03/seattleites-ignore-social-distancing-coronavirus-spreads>

“How to Use Psychology to Convince People to Take Social Distancing Seriously” by Jane Hu (2020) *Slate* <https://slate.com/technology/2020/03/coronavirus-social-norms-psychology.html>

University of Washington Office of Public Lectures "Coexisting with COVID-19" livestream series (September 2020) *COVID-19 and Risk*, featuring Nidhi Agrawal, Linda Ko and Susan Joslyn.

The Pulse: “Extreme Weather” National Public Radio (November 2022). Host: Kerry Sheridan

Professional Service

Professional Journals

- Journal of Experimental Psychology Applied: Editorial Board 2018-present
- Journal of Experimental Psychology Applied Special Issue; Risk Communication and Decision Making in Pandemics: Guest Editor 2020
- Journal of Experimental Psychology Applied: Associate Editor 2021-2023:
- Ad Hoc Reviewer:

Acta Psychologica, Applied Cognitive Psychology, Bulletin of the American Meteorological Society, Cognitive Research: Principles and Implications, Cognitive Science, Cognitive Systems Research Memory, Decision, Health Psychology, IEEE Transactions on Systems, Man and Cybernetics, International Journal of Human-Computer Studies, International Journal of Disaster Journal of Cognitive Engineering and Decision Making, Journal of Risk Research, Meteorological Applications, Nature, Natural Hazards, Philosophical Transactions, Psychonomic Bulletin & Review, Risk Analysis, Weather, Climate, and Society, Weather & Forecasting, WIRES: Climate Change

Grant Reviews

- Royalty Research Fund : Grant reviewer 2008-present
University of Washington
- National Science Foundation: Grant reviewer 2015-present

Other

- World Meteorological Association
Societal and Economic Research and Applications (NAT SERA)
of North American International Global Atmospheric Research
and Development Programme (THORPEX): Advisor 2006
- Boater Information System (BIS) 2007- 2009
Advisory Board Member
- National Oceanic and Atmospheric Administration 2012
Weather Ready Nation: Advisor
- Medical School: University of Washington 2013-2016
Healthcare research in behavioral economics
and decision sciences (CHOICES): Member
- American Meteorological Society (AMS) 2013-2016
Commission on the Weather and Climate Enterprise (CWCE)
Committee on Effective Communication of Weather and
Climate Information (CECWC): Board Member
- Office of Naval Research, Battle space Environment (QUBE) in 2014
and the Navigation Uncertainty (NiU) Advanced Research Challenge:
Advisor
- National Weather Service 2014-2015
Living With Extreme Weather National Alliance: Advisor
- National Alliance for Social-Behavioral Systems and 2015
Extreme Environmental Events: Advisor
- National Oceanic and Atmospheric Administration Western Region 2016-present

Integrated Weather Team

- Max Plank Institute Berlin, Germany: Summer Residency 2016
- Alliance for Integrative Approaches: Steering Committee member:
to Extreme Environmental Events 2017-2020
- National Oceanic and Atmospheric Administration
Hazardous Weather Testbed: Advisor 2018-2019
- National Center for Atmospheric Research
Hurricane Risk Calculator Team: Member 2019-present
- National Academies' Societal Experts Action Network (SEAN). Advisor 2022
- National Strategic Computing Reserve Report: Earth Systems and Wildfire
Advisor 2022

Membership in Professional Societies

- Psychonomics Society (Elected Membership) 1997-Present
- American Meteorological Society (AMS) 2016-present
- Society for Judgment and Decision-making 2017-present

Consulting

(paid and unpaid prior to last promotion)

- Safety Analysis of Air Traffic Control Upgrades project for CTAS (Center-TRACON
Automation System)
- Development and validation of multi-tasking measure (Cognisient Research)
- NTI Corporation: Cognitive assessment battery
- Anacapa Sciences
- The Climate Corporation
- Zillow Corporation
- International Pacific Halibut Commission
- Mt Baker Ski Area
- Department of Earth Sciences / Institute of Meteorology, Berlin, Germany
- Canadian Weather service
- United Kingdom Met Office
- Bureau of Meteorology, Melbourne Australia

(unpaid since last promotion)

- WEXICOM - Weather Warning: From Extreme Event Information To Communication and
Action, Freie Universitat, Berlin Germany

- United States Federal Aviation Administration: Aviation Weather Research Program (AWRP) initiative for Next Generation Air Transportation System
- Microsoft Weather Forecast Communication Team
- Amazon, Supply Chain Optimization Tech (SCOT)
- National Weather Service, Science and Technology Infusion Division
- University of Washington, Student Communications: COVID Compliance
- Seattle Mayors Office: COVID Messaging
- Meedan Digital Health Lab workshop: Content Moderation for Evolving and Inconclusive Health Information

Departmental Service

- Curriculum Committee
- Graduate Training Committee
- Teaching Evaluation Committee

Courses Taught

- Cognitive Psychology
- Human Memory
- Applied Issues in Cognition
- Human Performance Lab
- Cognitive Development
- Working Memory
- Psychology of Climate Change
- Core Concepts in Decision Making
- Core Concepts in Memory

Thesis Supervisor

Oaks, M., Directed Forgetting of Autobiographical Events	2005
Nadav-Greenberg, L., The Effectiveness of Weather Uncertainty Information for Decisions Involving Potential Losses	2008
Nemec, L. Can People Understand Verification Information for Probabilistic Temperature Forecasts?	2010
LeClerc, J. Communicating Weather and Climate Uncertainty: Exploratory Research in Cognitive Psychology	2014
Grounds M. Communicating Weather Uncertainty: An Individual Differences Approach	2016
Demnitz, R Risky Choices on Behalf of Others	2020
Burgeno, J. The Effect of Forecast Inconsistency and Explicit Uncertainty Estimates on Trust and Decision-Making	2022

In progress:

Qin, Chao, 5th year student

Han, Jee Hoon 4th year student

Updated 9/3/23