

# Eli B. McGraw

812 S Washington St, Bloomington, IN 47401

[ebmcgraw@iu.edu](mailto:ebmcgraw@iu.edu)

+1 (540) 514-2223

*Research interests: human–robot interaction; robot ethics; manipulative design/dark patterns; artificial consciousness; enactive social cognition, animal-computer interaction.*

## Education

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### Indiana University

*PhD Candidate (dual major), Cognitive Science and Informatics*

Aug 2022–Present

*Bloomington, IN*

### Beloit College

*B.A. (Honors) in Cognitive Science; Minor in Philosophy; Magna cum laude  
(GPA: 3.78/4.0)*

Aug 2016–May 2020

*Beloit, WI*

### University of Otago

*Study abroad program*

Jul 2018–Nov 2018

*Dunedin, NZ*

### Colorado College

*Summer program in Psychology*

Summer 2015

*Colorado Springs, CO*

## Publications

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<sup>†</sup> Shared first authorship.

### Association for Computing Machinery

- McGraw, E., McNames, M., Wagoner, I., Brey, L., & Nippert-Eng, C. (2025, December). ‘Choice’ and ‘control’ in ACI publications: A systematic review of language use across relational contexts. In *Proceedings of the ACM 12th International Conference on Animal-Computer Interaction* (pp. 1–15).
- Brey, L., McNames, M., McGraw, E., Hassinger, L., Wagoner, I., & Nippert-Eng, C. (2025, December). Providing choice and control at the zoo: A preliminary review of contextual factors based on expert interviews. In *Proceedings of the ACM 12th International Conference on Animal-Computer Interaction* (pp. 1–11).
- McGraw, E. B., Bosco, C., Brey, L., & Nippert-Eng, C. (2023, December). Dogs or not dogs? Examining ACI authors’ reporting on animal participants’ willingness to engage in research: A spotlight on mediated and contingent consent. In *Proceedings of the Tenth International Conference on Animal-Computer Interaction* (pp. 1–13).

### Social Robots with AI: Prospects, Risks, and Responsible Methods

- Levinson, L., McGraw, E., Gomez, R., & Šabanović, S. (2025). A spectrum of perceived sociality: A dynamical and enactive centering of interactions between children and robots. In *Social robots with AI: Prospects, risks, and responsible methods* (pp. 110–121). IOS Press.
- Zebrowski, R., Chella, A., McGraw, E., Sullins, J., & Vallor, S. (2025). Getting comfortable with robots: Artificial phronesis, inner speech, and sociomorphing. In *Social robots with AI: Prospects, risks, and responsible methods* (Vol. 397, pp. 598–601). IOS Press.

### Phenomenology and the Cognitive Sciences

- Beavers, A. F.<sup>†</sup>, & McGraw, E. B.<sup>†</sup> (2024). Clues and caveats concerning artificial consciousness from a phenomenological perspective. *Phenomenology and the Cognitive Sciences*, 23(5), 1073–1095.

## Frontiers in Neurorobotics

- Zebrowski, R. L.<sup>†</sup>, & McGraw, E. B.<sup>†</sup> (2022). Carving up participation: Sense-making and sociomorphing for artificial minds. *Frontiers in Neurorobotics*, 16. (Special Research Topic: Bio AI from Embodied Cognition to Enactive Robotics)

## Journal of Artificial Intelligence and Consciousness

- Zebrowski, R. L., & McGraw, E. B. (2021). Autonomy and openness in human and machine systems: Participatory sense-making and artificial minds. *Journal of Artificial Intelligence and Consciousness*, 8(02), 303–323.

## Undergraduate Journal of Cognition and Neuroethics

- McGraw, E. (2020). Autonomy and sense-making: Problematizing the individual in social cognition. *Undergraduate Journal of Cognition and Neuroethics*, 8(1), 97–113.

## Conference Presentations

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- McGraw, E., McNames, M., Wagoner, I., Brey, L., & Nippert-Eng, C. “Choice” and “Control” in ACI Publications: A Systematic Review of Language Use Across Relational Contexts. 12th International Conference on Animal-Computer Interaction; 2025 Dec 1–4; Bloomington, IN.
- Zebrowski, R., Chella, A., McGraw, E., Sullins, J., & Vallor, S. *Getting comfortable with robots: Artificial phronesis, inner speech, and sociomorphing*. Panel session. Robophilosophy; 2024 Aug 20–23; Aarhus, Denmark.
- Levinson, L., McGraw, E., Gomez, R., & Šabanović, S. *A Spectrum of Perceived Sociality: A Dynamical and Enactive Centering of Interactions Between Children and Robots*. Robophilosophy; 2024 Aug 20–23; Aarhus, Denmark. (Presenter: McGraw, E.)
- McGraw, E. *Haru Says! Enhancing Social Connection and Bonding with Music*. Haru Fest (flash talk), Honda Research Institute; 2024 May; Tokyo, Japan.
- McGraw, E. B. *Dogs or not Dogs? Examining ACI Authors’ Reporting on Animal Participants’ Willingness to Engage in Research: A Spotlight on Mediated and Contingent Consent*. 10th Annual International Conference on Animal-Computer Interaction; 2023 Dec 4–8; Raleigh, NC.
- McGraw, E. B., & Zebrowski, R. L. *Participatory sense-making and sociomorphing: The role of embodied artificial systems in social interaction*. ECogs: International Conference on Embodied Cognitive Science; 2022 June 9–10; Virtual.
- McGraw, E. B., & Zebrowski, R. L. *Carving up participation: sense-making and sociomorphing for artificial minds*. Poster presented at 46th Annual Meeting of the Society for Philosophy and Psychology; 2021 June 28–July 2; Virtual.
- McGraw, E. B. *Autonomy and sense-making: problematizing the individual in social cognition*. 12th Annual Midwest Undergraduate Cognitive Science Conference; 2020 April 24; Virtual.
- McGraw, E. B. *Autonomy and sense-making: problematizing the individual in social cognition*. 44th Annual Student Symposium; 2020 April 16; Beloit, WI.
- McGraw, E. B. *Study abroad and meaningful self-reflection: an integrative approach to understanding experience*. 18th Annual International Symposium; 2019 Nov 20; Beloit, WI.

## Teaching Experience

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**Introduction to Cognitive Science (COGS-Q101)** Spring 2023  
*Associate Instructor, Indiana University* Bloomington, IN

**Computer and Information Ethics (INFO-I453)** Fall 2024  
*Associate Instructor, Indiana University* Bloomington, IN

## Academic Honors & Awards

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**Outstanding Teaching Award in Cognitive Science** March 2023  
*Awarded in recognition of excellence in graduate instruction, including clarity of teaching, pedagogical innovation, mentorship, and sustained commitment to student learning.* Bloomington, IN

**Cognitive Science Departmental Honors** May 2020  
*Offered to students with a 3.4 GPA or above in the major and awarded upon completion of an honors thesis.* Beloit, WI

**Dean's List** Aug 2016–May 2020  
Beloit, WI

**Presidential Scholarship** Aug 2016–May 2020  
Beloit, WI

**Field Experience Grant** July 2017  
Beloit, WI

## Reviewing

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**Minds and Machines** — Ad hoc reviewer. Mar 2025

**Frontiers in Conservation Science** — Ad hoc reviewer. Aug 2025

**Frontiers in Psychology** — Ad hoc reviewer. Mar 2024

**CHI 2026** — External reviewer. Oct 2025

*ACM Conference on Human Factors in Computing Systems*

**HRI 2026** — External reviewer. Nov 2025

*ACM/IEEE International Conference on Human-Robot Interaction*

**Journal of Artificial Intelligence and Consciousness (JAIC)** — Ad hoc reviewer. Jan 2026

## Internships

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**Strategic Paws Training, LLC** July–Aug 2019  
*Intern* Stephens City, VA

- Conducted behavioral analysis on canines, identifying key stressors and calming factors.

## Funding

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- **Honda Research Institute (HRI)** — Research support via HRI-funded grant. PI: Selma Šabanović. (2022–2024)
- **DoD Trustworthy AI** (NSWC Crane / Indiana universities initiative) — Research support via NSWC Crane-led research and workforce development initiative with Indiana universities to develop reliable and safe AI for the U.S. Department of Defense. PIs: Selma Šabanović; Apu Kapadia. (2024–Present)