# **Angel Sylvester**

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- in Angel Sylvester
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#### **Education**

- 2020 Ph.D., University of Minnesota, Artificial Intelligence and Robotics.
- 2016 2020 **B.A., Macalester College,** Chemistry and Computer Science

# **Employment History**

- 2020 · · · Graduate Researcher, University of Minnesota.
- 2021 2022 **Data Analyst Fellow, SEISMIC.** 
  - 2022 CSCI 1133 Graduate Instructor, University of Minnesota.

# **Awards and Achievements**

- 2020-2021 ADC Fellowship, University of Minnesota
  - 2019 Datafest "Best in Show", Macalester College.
    - Clare Boothe Luce Scholar, Macalester College.
- 2016-2020 **DeWitt Wallace Distinguished Scholarship**, Macalester College.

#### **Research Publications**

#### **Journal Articles**

J. Harwell, A. Sylvester, and M. Gini, "An empirical characterization of ODE models of swarm behaviors in common foraging scenarios," *Autonomous Robots*, Jul. 2023. ODI: 10.1007/s10514-023-10121-9.

#### **Workshop Papers**

- A. Sylvester and M. Gini., "Facilitating real-time collaboration and learning in search environments for multi-robot systems via real-time evolutionary algorithm," ARMS Workshop at AAMAS, London, England, 2023.
- A. Sylvester, E. Temesgen, N. Etori, and M. Gini., "Autonomy and dignity for elderly using socially assistive technologies," Workshop Assistive Robotics for Citizens at IROS 2023, Detroit, MI, 2023.
- A. Sylvester, E. Temesgen, N. Etori, and M. Gini., "Ethical robot design considerations for people suffering from neurodegenerative disease," Workshop Geriatronics: AI and Robotics for Health & Well-Being in Older Age at IROS 2023, Detroit, MI, 2023.
- A. Sylvester, J. Harwell, and M. Gini., "A robust model for predicting collective behavior in large robot swarms," Robot Swarms in the Real World Workshop at ICRA, 2021.

#### **Presentations**

A. Sylvester and M. Gini., "A dynamic biology driven evolutionary solution to emergent precursors to optimal behavior," poster at CRA-WP Grad Cohort Workshop, 2023.

- A. Sylvester and M. Gini., "Enforcing real-time collaboration and learning in search environments for multi-robot systems," poster at MSI Research Computing Exhibition, 2023.
- A. Sylvester, E. Temesgen, N. Etori, L. Lowmanstone, S. Boehler, and M. Gini., "Developing a patient-centered solution by addressing technology accessibility," video at ICRA Ethics Challenge, 2023.
- A. Sylvester, "Exploring the role of classroom composition on student performance," SEISMIC Minnesota Week Exhibition, 2022.

# **Skills**

Languages English (fluent), Spanish (intermediate), Korean (basic).

Coding Java, Python, R, sql, xml/xsl, LTEX, HTML, css, JavaScript, Typescript

Databases Firebase, SQL

Frameworks | Ionic, Netlogo, ArGoS, Webots, Babylon.js, ROS

# Miscellaneous Experience

## **Teaching/Mentoring Experience**

2023 SciMent Mentor, University of Minnesota

2022 Summer Computing Camp Instructor, University of Minnesota

2021- Graduate TA for CSCI 1133, 1103, 1933, and 2980, University of Minnesota

### References

Available on Request