

# Jason B. Cho

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## Education

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### Cornell University, Ithaca, NY

Bowers College of Computing and Information Science

Doctor of Philosophy in Statistics and Data Science

Advisor: David S. Matteson

Cumulative GPA: 4.0

Aug. 2021 – Present

### Cornell University, Ithaca, NY

College of Agriculture and Life Sciences

Masters of Science in Animal Science

Special Committee: Quirine M. Ketterings, Joe Guinness, Jan van Aardt

Cumulative GPA: 4.0

Aug. 2019 – May. 2021

### Cornell University, Ithaca, NY

College of Arts and Sciences

Bachelor of Arts in Statistical Science and Minor in Computer Science

Dean's list (Fall 2016, Spring 2018)

Cumulative GPA: 3.4 Major and Minor GPA: 3.7

Aug. 2011 – May 2018

## Publications

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1. Cho, J.B., Serneels, S., & Matteson, D.S. Non-Fungible Token Transactions: Data and Challenges. *Data Science in Science* 2022; DOI: <https://doi.org/10.1080/26941899.2022.2151950>
2. Cho J.B., Guinness J, Kharel T, Maresma Á, Czymmek KJ, van Aardt J, Ketterings QM. Proposed Method for Statistical Analysis of On-Farm Single Strip Treatment Trials. *Agronomy*. 2021; 11(10):2042. DOI: <https://doi.org/10.3390/agronomy11102042>
3. Cho, J.B., Guinness, J., Kharel, T.P. et al. Spatial estimation methods for mapping corn silage and grain yield monitor data. *Precision Agric* 22, 1501–1520 (2021). DOI: <https://doi.org/10.1007/s11119-021-09793-z>
4. Sunoj S, Cho J, Guinness J, van Aardt J, Czymmek KJ, Ketterings QM. Corn Grain Yield Prediction and Mapping from Unmanned Aerial System (UAS) Multispectral Imagery. *Remote Sensing*. 2021; 13(19):3948. DOI: <https://doi.org/10.3390/rs13193948>
5. Sunoj, S, Kharel, D, Kharel, T, Cho, J, Czymmek, KJ, Ketterings, QM. Impact of headland area on whole field and farm corn silage and grain yield. *Agronomy Journal*. 2021; 113: 147– 158. DOI: <https://doi.org/10.1002/agj2.20489>
6. Cuadra, A., Li, S., Lee, H., Cho, J., and Ju, W. 2021. My Bad! Repairing Intelligent Voice Assistant Errors Improves Interaction. *Proceedings of the ACM on Human-Computer Interaction* Vol.5, No. CSCW1, Article 27 (April 2021), 24 pages. DOI: <https://doi.org/10.1145/3449101>

## Conference Presentations

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1. Cho, J., Maresma, A., Kharel, T. P., Godwin, G., Shajahan, S., Kharel, D., Oware, E., Van Aardt, J., Guinness, J., & Ketterings, Q. M. (2020) Spatial Estimation Methods for Mapping Corn Yield Monitor Data [Abstract]. ASA, CSSA and SSSA International Annual Meetings (2020) | VIRTUAL, Phoenix, AZ. <https://scisoc.confex.com/scisoc/2020am/meetingapp.cgi/Paper/126151> – **1<sup>st</sup> place in student competition**
2. Cho, J., Maresma, A., Kharel, T. P., Godwin, G., Kharel, D., Czymmek, K. J., Oware, E., Van Aardt, J., Guinness, J., & Ketterings, Q. M. (2020) Analyzing Single Strip Nitrogen Trials for Corn through Yield Stability Based Management Zones [Abstract]. ASA, CSSA and SSSA International Annual Meetings (2020) | VIRTUAL, Phoenix, AZ. <https://scisoc.confex.com/scisoc/2020am/meetingapp.cgi/Paper/126196>

3. Sunoj, S., Kharel, D., Kharel, T., Cho, J., Czymbek, K. J., & Ketterings, Q. M. (2020) Impact of Headland Area on Whole Field and Farm Corn Silage and Grain Yield [Abstract]. ASA, CSSA and SSSA International Annual Meetings (2020) | VIRTUAL, Phoenix, AZ. <https://scisoc.confex.com/scisoc/2020am/meetingapp.cgi/Paper/126163>
4. Sunoj, S., Cho, J., Guinness, J., Van Aardt, J., Oware, E., Czymbek, K. J., & Ketterings, Q. M. (2020) Corn Grain Yield Mapping from High Resolution UAS Imagery [Abstract]. ASA, CSSA and SSSA International Annual Meetings (2020) | VIRTUAL, Phoenix, AZ. <https://scisoc.confex.com/scisoc/2020am/meetingapp.cgi/Paper/126350>
5. Lehman, B., Cho, J., Mace, B., Walden, C., Czymbek, K. J., & Ketterings, Q. M. (2020) Do Corn Yield Stability Zones on a New York Dairy Farm Reflect within-Field Variability of Soil Characteristics? [Abstract]. ASA, CSSA and SSSA International Annual Meetings (2020) | VIRTUAL, Phoenix, AZ. <https://scisoc.confex.com/scisoc/2020am/meetingapp.cgi/Paper/126601>– 3<sup>rd</sup> place in student competition
6. Cho, J., Lehman, B., Kharel, T., Kharel, D., Czymbek, K. J., Guinness, J., & Ketterings, Q. M. (2019) Year to Year Variability in Yield Stability Based Management Zone for Corn [Abstract]. ASA, CSSA and SSSA International Annual Meetings (2019), San Antonio, TX. <https://scisoc.confex.com/scisoc/2019am/meetingapp.cgi/Paper/120439>
7. Guinness, J., Cho, B. J., Kharel, T., Maresma, A., Czymbek, K. J., & Ketterings, Q. M. (2019) Using Spatial Statistics to Analyze on-Farm Trials [Abstract]. ASA, CSSA and SSSA International Annual Meetings (2019), San Antonio, TX. <https://scisoc.confex.com/scisoc/2019am/meetingapp.cgi/Paper/120105>

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## Research Assistantship

### Cornell Nutrient Management Spear Program, Ithaca, NY

*Research Assistant – under Professor Quirine Ketterings*

- Developed software for interpolating spatially correlated data (yield monitor data) using R
- Performed statistical analysis to understand the effect of nitrogen on corn yield

Dec. 2018 – May. 2021

### Cornell Tech Future Automation Research Laboratory, New York, NY

*Part-time Research Assistant – under Professor Wendy Ju*

- Designed several custom voice agent skills using JavaScript for a research project
- Assisted data collection and organization, literature review and overall project management

Jul. 2018 – May. 2019

### Cornell Statistical Consulting Unit, Ithaca, NY

*Data Analyst*

- Performed data analysis for researchers around Cornell. Tasks include dimensionality reduction, imputations, outlier detection, causal inference and clustering

Jul. 2018 – Dec. 2018

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## Academic Fellowship

### 2023 PiTech Siegel PhD Impact Fellowship

- Closely worked with the City of Ithaca to estimate the workforce need for 100% electrification of all buildings in Ithaca by 2030

May. 2023 – Aug. 2023

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## Teaching Assistantship

### Graduate Teaching Assistant

*STSCI 2150: Introductory Statistics for Biology*

*STSCI 4100: Multivariate Analysis*

*STSCI 4090: Linear Models with Matrices*

*ORIE 3500: Engineering Probability and Statistics II*

Aug. 2019 – Present

### Grader

*BTRY 3080: Probability Models and Inference*

*BTRY 3090: Theory of Interest*

Aug. 2018 – May 2018