

# COLIN J. HARTMAN

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## EDUCATION

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**Dartmouth College;** Hanover, NH Sep 2020-Present  
Molecular and Cellular Biology PhD Graduate Program

**Northern Kentucky University;** Highland Heights, KY May 2020  
Bachelor of Science in Biological Sciences; *Summa Cum Laude*  
Cellular/Molecular/Genetics Track  
Minors in Chemistry, Physics, and Astronomy

## PUBLICATIONS

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**Hartman C,** Legoff L, Capriati M, Lecuyer G, Kernanec P-Y, Tevosian S, D'cruz S, and Smagulova F (2021). Epigenetic effects promoted by neonicotinoid thiacloprid exposure. *Front Cell Dev Biol*.

**Hartman C,** Mester J, Hare P, Cohen A (2020) Novel inactivation of the causative fungal pathogen of white-nose syndrome with methoxsalen plus ultraviolet A or B radiation. *PLOS ONE*.

## RESEARCH EXPERIENCE

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**Dartmouth College;** Hanover, NH Aug 2020-Present  
Advisor: Margaret Ackerman, PhD  
First-year rotation projects

- Analysis of cross-reactive SARS-CoV-2 antibody responses
- Development of murine melanoma model for oncolytic virus therapy
- Single-cell B-cell receptor sequencing

**Northern Kentucky University;** Highland Heights, KY May 2017-May 2020  
Advisors: Joseph Mester, PhD and Alan Cohen, MD

- Investigated a novel decontamination approach against *Pseudogymnoascus destructans*, the causative fungus of white-nose syndrome in bats, with UVA and UVB radiation in combination with methoxsalen, a photosensitizer
- Studied the inactivation of environmental fungal spores from three genera, *Fusarium*, *Penicillium*, and *Mucor*, with heat and UVC radiation

**Research Institute for Environmental and Occupational Health (IRSET),  
Université de Rennes 1;** Rennes, France May-Jul 2019  
Advisor: Fatima Smagulova, PhD

- Determined phenotypic and molecular impacts of thiacloprid, a neonicotinoid insecticide, on the murine male reproductive system
- Coordinated and collaborated with an international research team

## GRANTS

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**Dorothy Westerman Hermann Undergraduate Research Grant** Mar 2018  
Project funding and financial assistance grant awarded to undergraduate students demonstrating a full-time, intensive, research project; \$500 plus \$3,500 stipend

**Student Undergraduate Research and Creative Grant** Mar 2018  
Awarded to creative research contributing to new insights in an academic field; \$600

## HONORS AND AWARDS

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- Dartmouth Fellowship**, Dartmouth College Aug 2020-Present  
Full tuition scholarship for the Molecular and Cellular Biology PhD Graduate Program
- Outstanding Graduate in Biological Sciences**, Northern Kentucky University May 2020  
Awarded to one graduating student each year who demonstrates excellence in research and academics in biological sciences
- Dean's Scholarship**, Northern Kentucky University Fall 2018-Spring 2020  
Merit-based scholarship awarded to undergraduate students demonstrating a high level of academic achievement; full tuition scholarship
- President's Honors List**, Northern Kentucky University Fall 2016-Spring 2020  
Required GPA: 4.00
- Erasmus Plus Scholarship**, Erasmus Program Summer 2019  
Awarded to students conducting a study-abroad in the European Union; \$2,900
- International Study Scholarship**, Northern Kentucky University Spring and Summer 2019  
Awarded to students participating in a study abroad program; \$700
- First Place Microbiology Oral Presentation**, Kentucky Academy of Science Nov 2, 2018  
Annual Meeting, Western Kentucky University
- Excellence Scholarship**, Northern Kentucky University Fall 2015-Spring 2018  
Merit-based scholarship; \$5,000 per year

## PRESENTATIONS

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- Hartman CJ**, D'Cruz SC, Legoff L, and Smagulova FO. Epigenetic effects of neonicotinoid thiacloprid on F1-generation murine male reproductive system. Heather Bullen Research Celebration, Northern Kentucky University, **August 2019**, *Poster presentation*.
- Hartman CJ**, Cohen AI, and Mester JC. Novel inactivation of the causative fungus of White Nose Syndrome with methoxsalen and ultraviolet A and B radiation. Research Celebration, Northern Kentucky University, **August 2018**, *Poster presentation*; **April 2019**, *Oral presentation*. Western Kentucky University, **November 2018**, *Oral presentation*. Posters-at-the-Capitol, Kentucky State Capitol Building, **February 2019**, *Poster presentation*.
- Hartman C.J.**, Goodrich S, Wentworth A, and Mester JC. Inactivation of environmental fungal spores with heat and ultraviolet C radiation. *Poster presentation*. Heather Bullen Research Celebration, Northern Kentucky University, **August 2017**. Kentucky Academy of Science Annual Meeting, Murray State University **November 2017**, *Poster presentation*.

## PROFESSIONAL ORGANIZATIONS

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- Beta Beta Beta Biological Honor Society**, Mu Iota Chapter Jan 2019-May 2020  
Honor society for students dedicated to expanding scientific knowledge through research

## ADDITIONAL ACADEMIC ACTIVITIES

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- Peer-led Learning for Understanding and Success (PLUS) Tutor**; Northern Kentucky University Aug 2019-May 2020
- Physics and Astronomy Club**; Northern Kentucky University Sep 2017-May 2020
- Costa Rican Natural History Study Abroad**; Costa Rica Mar 2019  
Covering ecological, political, developmental, and cultural interaction