

**Charles R Jedlicka, Ph.D. Candidate**  
Charles-Jedlicka@uiowa.edu — (319) 936-4822

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**Education**

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- 2024                      Doctor of Philosophy, Health and Human Physiology  
University of Iowa  
Mentor: Melissa L. Bates, PhD  
*Thesis: Incidence, transcriptomic, and clinical consequences of sleep apnea: Snoring is not boring for blood cancer patients*
- 2018                      Bachelor of Science, Health, Exercise and Rehabilitative Science  
Winona State University  
Mentor: Kent C. Hansen, PhD

**Teaching Experience**

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University of Iowa, Department of Health and Human Physiology – Teaching Assistant

HHP 3115 – Anatomy for Human Physiology with Lab – Fall 2022

Laboratory - Class Size – 2 Sections, 22-24 Students

HHP 2350 – Biomechanics of Sport and Physical Activity – Fall 2021

Discussion - Class Size – 3 Sections, 18-20 Students

HHP 3550 – Human Physiology with Laboratory – Spring 2021, Fall 2021

Laboratory - Class Size – 2 Sections, 22-24 Students

HHP 1310 – Human Physiology Laboratory – Fall 2020, Spring 2021

Laboratory - Class Size – 3 Sections, 8-16 Students

HHP 2200 – Physical Activity and Health – Fall 2020

Discussion - Class Size – 2 Sections, 22 Students

HHP 4450 – Human Genetics and Disease – Fall 2020

Discussion - Class Size – 11 Students

University of Minnesota, School of Kinesiology – Instructor of Record

KIN 3550 – Human Physiology with Laboratory – Summer Term 2019

Lecture and Laboratory - Class Size – 15 Students

PE 1067 – Basketball – Fall 2019

Class Size – 31 Students

PE 1015 – Weight Training – Fall 2019

Class Size – 28 Students

University of Minnesota, School of Kinesiology – Teaching Assistant

KIN 4385 – Exercise Physiology with Laboratory – Fall 2019, Spring 2020

Laboratory - Class Size – 2 sections, 8 students each

KIN 3027 – Human Anatomy for Kinesiology – Spring 2020

Laboratory - Class Size – 16 students

KIN 3550 – Human Physiology with Laboratory – Fall 2018, Spring 2019

Laboratory - Class Size – 3 sections, 16 students each

**Professional Experience**

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- 01/2022- Present                      Research Assistant  
University of Iowa
- 08/2020-12/2021                      Teaching Assistant  
University of Iowa
- 08/2018-05/2020                      Teaching Assistant  
University of Minnesota

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2019 Summer Term Instructor  
University of Minnesota

### Honors and Awards

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2024 Ballard and Seashore Dissertation Fellowship – University of Iowa Graduate College - \$10,700  
2023 Wenger Travel Award: Holden Comprehensive Cancer Center - \$750  
2023 UI GPSG Travel Award - \$750  
2022 UI Graduate College Fellowship Incentive Award - \$500  
2022 Wenger Travel Award: Holden Comprehensive Cancer Center - \$1000  
2022 UI GPSG Travel Award - \$750  
2018 Winona State Fellowship Undergraduate Research Grant - \$1000

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### Certifications

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Certificate of Teaching Achievement – Associate Program - Center for the Integration of Research, Teaching, and Learning

LGBTQ Safe Zone Training – UI Multicultural and International Student Support and Engagement

Building University of Iowa Leadership for Diversity (BUILD) Trainings

### Research Interests

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- Innovation in Physiology Education
- Inclusive Teaching Approaches to Underrepresented Students
- Physiological Impacts of Intermittent Hypoxia
- Clinical Ramifications of Sleep Apnea
- Physiological Effects of Opioid Use and Disorder
- Environmental and Lifestyle Impacts on Hematological Cancers
- Health Disparities and Outcomes in Underserved Communities

### Published Works

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1. Zhang, Z., Kalra H., Delzell MC, **Jedlicka CR**, Vasilyev M., Vasileva A, Tomasson MH, Bates ML. CORP: Sources and degrees of variability in whole animal intermittent hypoxia experiments. *Journal of Applied Physiology*, 2023. 134(5): p. 1207-1215. 10.1152/jappphysiol.00643.2022

### Papers in Authorship Progress

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1. Mertens L\*, **Jedlicka CR\***, Haasl C, Kalra H, Lie Junjie, Tomasson MH, Bates ML. Shared Medical Appointments for Patients Newly Diagnosed with Obstructive Sleep Apnea.
2. **Jedlicka CR**, Bhagwat S, Kalra H, Kwabi-Addo, B, Breheny PJ, Tomasson MH, Bates ML. Opioid Analgesic Use in Patients with Sleep Disorders: A Retrospective Cohort Study Using Electronic Health Records.
3. Kalra H, **Jedlicka CR**, Tomasson MH, Bates ML. Decreasing FIO<sub>2</sub> Induces Spontaneous Intermittent Hypoxic Events in C57BL/6 Mice.
4. **Jedlicka CR**, Edwin I, Haasl C, Witherell C, Tomasson MH, Bates ML. Chronic Intermittent Hypoxia Impact on Blood Cancer Clinical Outcomes.
5. Vasilyev M, Zhang Z, Kalra H, **Jedlicka CR**, Vasileva A, Tomasson MH, Bates ML. Bone Marrow Milieu Reprogramming Triggered by Chronic Intermittent Hypoxia.
6. Buckman MA, Vasileva A, **Jedlicka CR**, Vasilyev M, Kalra H, DeRuisseau LR, Tomasson MH, Bates ML. Daunorubicin Induced Cardiovascular Toxicity in a Model of Down Syndrome.

*\*denotes equal contribution*

### Posters and Invited Talks

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**Charles R Jedlicka**, Calista Haasl, Carly Witherell, Michael H Tomasson, Melissa L Bates, “Prospective Assessment of Nighttime Respiratory Disturbance in Multiple Myeloma Patients”

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06/2023	Holden Comprehensive Cancer Center Retreat (Poster)
04/2023	American Physiological Summit (Poster)
04/2023	Lahiri-Cherniack Symposium, American Physiology Summit (Presentation) <b>Charles R Jedlicka</b> , Siddharth Bhagwat, Michael H Tomasson, Melissa L Bates, “Opioid Analgesic Use in Patients with Sleep Disorders: A Retrospective Cohort Study Using Electronic Health Records,”
04/2022	Experimental Biology (Poster) <b>Charles R Jedlicka</b> , Abigail Geislinger, Kent C Hansen, “Beet Root Juice’s Betalain Content’s Effect on Delayed Onset Muscle Soreness,”
05/2018	ACSM Annual Meeting (Poster)

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**Undergraduate Research Thesis Co-Mentorship**

1. **Calista Haasl**: Prospective Assessment of Nighttime Respiratory Disturbance in Multiple Myeloma Patients – Spring 2023
2. **Olivia Johnson**: Beta-Adrenergic Stimulation is Necessary but Not Sufficient to Promote CIH-Induced Multiple Myeloma Progression – Fall 2023
3. **Laura Flores**: Cardiorespiratory Depression in Mice Receiving Isoflurane Versus Urethane Anesthesia – Spring 2023

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**Scholarly Membership**

2015-Present	American College of Sports Medicine
2019-Present	American Physiological Society

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**Departmental Service**

2022-Present	University of Iowa, HHP Graduate Student Organization: President
2022-2023	University of Iowa, HHP Diversity, Equity, and Inclusion Student Committee
2017-2018	University of Minnesota, Kinesiology Student Council: Vice President
2017-2018	University of Minnesota, Kinesiology Graduate Education Committee, Student Chair

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**Community Education**

03/2023	Film Scene Science on Screen: “Mario: A Tale of Atrophying Assets” <i>Iowa City, IA</i>
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