

**Chase G Rock**  
Department of Biomechanics  
University of Nebraska at Omaha  
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## EDUCATION

2010 – 2014 **College of Arts and Sciences**, University of Nebraska at Omaha  
**B.S. Neuroscience**, minor degrees in Biology and Chemistry  
**GPA:** 3.618/4.0     **GRE:** Quantitative – 158     Verbal – 163

2014 – Present **Department of Biomechanics**, University of Nebraska at Omaha  
**M.S. Exercise Science**, concentration in Biomechanics

## RESEARCH

2014 – 2015 **Biomechanics Research Building**, University of Nebraska at Omaha  
**Undergraduate Research Assistant**, Advisor: Dr. Shane Wurdeman

2015 – Present **Department of Biomechanics**, University of Nebraska at Omaha  
**Graduate Student Worker**, Advisor: Dr. Kota Takahashi  
**Thesis Project:** Linking Fractal Walking Patterns with Changes in Metabolic Cost of Transport

## AWARDS, HONORS, & MEMBERSHIPS

2010 – 2014 **Regents Scholar**, University of Nebraska at Omaha  
2013 – Present **Member of Nu Rho Psi**, National Honor Society in Neuroscience  
2014 **Magna Cum Laude Graduate**, University of Nebraska at Omaha  
2016 – Present **Member of American Society of Biomechanics**  
2016 **Graduate Research and Creative Activity award**, University of Nebraska at Omaha  
2016 **Delsys 2016 Student Travel Grant**, Delsys, Inc.

## PRESENTATIONS

**Rock CG**, Wurdeman SR, Stergiou N, & Takahashi KZ *Relationship Between Prosthetic Push-Off Work And Stride-To-Stride Fluctuations In Transtibial Prosthesis Users*.  
**40<sup>th</sup> Annual Meeting of the American Society of Biomechanics**, Raleigh Conference Center, Raleigh, NC. 2016

**Rock CG**, Marmelat V, Yentes J, & Takahashi KZ *Metabolic Cost of Transport and the Persistence of Stride-to-Stride Fluctuations in Human Walking*  
**Human Movement Variability Conference**, Scott Conference Center, Omaha, NE. 2016

**Rock CG**, Marmelat V, Yentes J, & Takahashi KZ *Metabolic Cost of Transport and the Persistence of Stride-to-Stride Fluctuations in Human Walking*  
**6<sup>th</sup> Annual Meeting of the Rocky Mountain American Society of Biomechanics**, YMCA of the Rockies, Estes Park, CO. 2016

**Rock CG**, Wurdeman SR, Stergiou N, & Takahashi KZ *Relationship Between Prosthetic Push-Off Work And Stride-To-Stride Fluctuations In Transtibial Prosthesis Users*  
**Research and Creative Activity Fair**, University of Nebraska at Omaha, Omaha, NE. 2016

**Rock CG** *Metabolic Cost and Long-Term Correlations in Human Gait*

## **VOLUNTEER EXPERIENCE**

- 2012      **Undergraduate Assistant** – Magic of Chemistry Event, Durham Science Center, University of Nebraska at Omaha
- 2012 – 2013   **Enrichment and Husbandry Assistant**, Callitrichid Research Center, University of Nebraska at Omaha
- 2014      **Neuroscience Instructor**, NeuroWow Summer Event, University of Nebraska at Omaha
- 2015      **Biomechanics Booth Host**, UNO Lights On Event, Sapp Fieldhouse, University of Nebraska at Omaha
- 2016      **Biomechanics Instructor**, National Biomechanics Day, Omaha North High Magnet School, Omaha, NE
- 2016      **Biomechanics Booth Host**, Nebraska Science Festival, Strategic Air Command and Aerospace Museum, Ashland, NE
- 2016      **Biomechanics Instructor**, Girls, Inc. Summer Camp, Biomechanics Research Building, University of Nebraska at Omaha