


LOGAN FAUX-DUGAN

Seeking industrial research opportunities

I am a M.S./Ph.D. in Kinesiology - Biomechanics student at The Pennsylvania State University. After finishing my education, I would love to work with an industry-leading company conducting research and development on products involving musculoskeletal structure, properties, and function in human populations.


EDUCATION

- 2019
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Present

The Pennsylvania State University
M.S./Ph.D. in Kinesiology - Biomechanics  State College, PA

Thesis: Relationship between achilles tendon moment arm and triceps surae muscle architecture


Adviser: Stephen J. Piazza
- 2015
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2019

Delaware State University
B.S. in Movement Science  Dover, DE

Presidential Academic Award (Summa Cum Laude - 4.0 GPA)


RESEARCH EXPERIENCE

- 2019
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Present

Graduate Research Assistant
The Pennsylvania State University, Biomechanics Laboratory  State College, PA

 - maintain a 8 camera, Motion Analysis motion capture system
 - create virtual markers for motion analysis
 - construct localized reference frames for joint kinematics
 - collect data for regression modeling
 - perform 3D ultrasonography for muscle volume reconstruction
 - perform ultrasonography for acquisition of achilles tendon functional axis moment arm
 - improve reliability and repeatability of aforementioned methods

Principal Investigator: Stephen J. Piazza
- 2018
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2019



Research Associate Team Captain
Delaware State University, Exercise Rehabilitation Laboratory  Dover, DE

 - set up and led weekly lab meetings
 - created lab protocols for both professors' assignments and students' research projects
 - participated in weekly captains' meetings
 - instructed undergraduate research assistants and Kinesiology students through research equipment protocols relevant to data collections

Principal Investigator: Von Homer



CONTACT INFO

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-  +13023574674

If you have any questions then please contact me via email or phone.

SKILLS

Experienced using R, Stradwin, ImageJ, and MATLAB.

Expertise with ultrasonography in 3D muscle architecture reconstruction/visualization and acquisition of achilles tendon functional axis moment arm

Proficient in performing multivariate accommodation analysis of product design using human variability.

This resume was made with the R package [pagedown](#).

Last updated on 2021-09-14.

2018
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2019

● **Undergraduate Research Assistant**

University of Delaware, Motion Analysis Laboratory 📍 Newark, DE

- assisted PhD candidate students with motion analysis protocols
- maintained cleanliness and stock of laboratory
- set up and put away equipment for data collections
- instructed participants through procedures

Principal Investigator: Lynn Snyder Mackler/Thomas S. Buchanan

2016
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2019

● **Undergraduate Research Assistant**

Delaware State University, Biomechanics Laboratory 📍 Dover, DE

- worked independently/collaboratively with lab members
- maintained confidentiality of participant information
- used SPSS and R to perform statistical analyses
- performed professionally guided consent
- accurately instructed participants through research procedures/protocol

Principal Investigator: R. Christopher Mason

Summer,
2018

● **Visiting Undergraduate Research Assistant (>350 hrs.)**

University of Delaware, Motion Analysis Laboratory 📍 Newark, DE

- developed research project
- maintained open communication with principal investigator
- used MATLAB and Image J for post processing
- constructed abstract for submission to research symposium
- create and present poster at research symposium (**first place winner for Biomechanics and Computational Methods category**)

Principal Investigator: Lynn Snyder Mackler/Thomas S. Buchanan

 **PROFESSIONAL EXPERIENCE**

2018
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2019

● **Physical Therapist Job Shadow (~50 hrs.)**

Christiana Care, Rehabilitation Services 📍 Middletown, DE

- maintained cleanliness and stock of physical therapy facilities
- greeted and instructed patients through specific rehabilitation exercises
- conveyed positive imagine of the company to customers
- coordinated with insurance correspondents

2017
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2019

● **Sports Medicine Intern (~100 hrs.)**

Delaware State University, Sports Medicine Facilities 📍 Dover, DE

- prepared equipment for travel for athletic events
- effectively communicated with colleagues and athletes
- instructed injured athletes through rehabilitative exercises
- maintained cleanliness and stock of athletic training facilities

2009
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2019

● **Outside Sales Representative & Call Center Call Analyst**

P.J. Fitzpatrick Inc., Outside Sales Department 📍 New Castle, DE

- represented company as a vendor at remote sales events
- contacted event coordinators
- set up sales estimates
- screened calls for quality assurance and categorized calls for future reference

Summer,
2017

● **Physical Therapy Technician Intern (~100 hrs.)**

All Therapy, Physical Therapy & Wellness  Middletown, DE

- maintained cleanliness and stock of physical therapy facilities
- greeted and instructed patients through specific rehabilitation exercises
- emailed/called patients for appointment reminder calls
- coordinated with insurance correspondents.




TEACHING EXPERIENCE

2019
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Present

● **Teaching Assistant**

Kinesiology 384: Biomechanics Lab at The Pennsylvania State University

 State College, PA



PRESENTATIONS

May,
2019

● **Poster for Annual Meeting, American College of Sports Medicine**

"Evaluating Collagen Matrix Degradation after ACL Reconstruction using Quantitative MRI"


 Orlando, FL

Faux-Dugan, L. K., Williams, J. R., Neal, K., Khandha, A., & Buchanan, T. S.

April,
2019

● **Poster for Research Day, Delaware State University**

"Evaluating Collagen Matrix Degradation after ACL Reconstruction using Quantitative MRI"

 Dover, DE

Faux-Dugan, L. K., Williams, J. R., Neal, K., Khandha, A., & Buchanan, T. S.

October,
2018

● **Poster for Mid-Atlantic Regional Conference, American College of Sports Medicine**

"Evaluating Collagen Matrix Degradation after ACL Reconstruction using Quantitative MRI"

 Harrisburg, PA

Faux-Dugan, L. K., Williams, J. R., Neal, K., Khandha, A., & Buchanan, T. S.

July,
2018

● **Poster for Summer Research Symposium, Delaware State University**

"Evaluating Collagen Matrix Degradation after ACL Reconstruction using Quantitative MRI"

 Dover, DE

Faux-Dugan, L. K., Williams, J. R., Neal, K., Khandha, A., & Buchanan, T. S.

PUBLICATIONS

May 10,
2019

- **International Journal of Exercise Science**
Faux-Dugan, L.; Williams, J.; Neal, K.; Khandha, A.; and Buchanan, T. (2019) "Evaluating Collagen Matrix Degradation after ACL Reconstruction using Quantitative MRI," International Journal of Exercise Science: Conference Proceedings: Vol. 9 : Iss. 7 , Article 28. Available at: <https://digitalcommons.wku.edu/ijesab/vol9/iss7/28>

AWARDS


2015

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2019

- **President's List**
Delaware State University  Dover, DE

2015

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2019

- **First Place Winner in Biomechanics & Computational Methods for Poster Presentation**
Summer Research Symposium, Delaware State University  Dover, DE

AFFILIATIONS

2019

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Present

- **American Society for Biomechanics**
Student Member


2018

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Present

- **American College of Sports Medicine**
Student Member  Indianapolis, IN

2018

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2019

- **Alpha Chi Honor Society**
Delaware State University Chapter  Dover, DE

2018

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2019

- **Phi Epsilon Kappa Honor Fraternity**
Delaware State University Chapter  Dover, DE


2016

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2019

- **National Society of Leadership & Success**
Delaware State University Chapter  Dover, DE

2015

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2019

- **Health and Fitness Leaders Organization**
Delaware State University Chapter  Dover, DE

VOLUNTEER EXPERIENCE

2015

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2019

- **Food Pantry (>1000 hrs.)**
Cedars Church of Christ  Pike Creek, DE

2015

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2019

- **Shoe Soles for Souls Shoe Drive**
P.J. Fitzpatrick Inc.  New Castle, DE

Summer,
2018

- **Alumni Mentor**
Conrad Schools of Science  Wilmington, DE

Summer,
2017



Haiti Missions
United Redeemed

📍 Elkton, MA

Summer,
2013



Relay for Life
American Cancer Society

📍 Bear, DE



REFERENCES



Please feel free to request referees, and I will happily oblige.