

MARIE MUTRYN

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EDUCATION

University of Delaware—Newark, DE **8/2012-2/2015**

- M.S. in Animal Science with research thesis and defense, degree requirements completed February 2015, degree conferred May 2015
- Fully funded as a Research Assistant for Dr. Benham Abasht's Lab

Swarthmore College—Swarthmore, PA **8/2008-5/2012**

- B.A. with a major in Biology and minor in Psychology
- Date of graduation May 2012

INDEPENDENT RESEARCH

Research in Animal Science—University of Delaware **8/2012-2/2015**

- Master's thesis titled: RNA-sequencing analysis of Wooden Breast Disease: Characterization of a novel muscle disease in chickens through differential gene expression and pathway analysis

PUBLICATIONS

Manuscript published:

- Mutryn, M., Brannick, E., Fu, W., Lee, W., & Abasht, B. (2015) Characterization of a novel chicken muscle disorder through differential gene expression and pathway analysis using RNA-sequencing. *BMC Genomics*. 16 (1): 399. **HIGHLY ACCESSED**
- Mutryn, M., Fu, W., & Abasht, B. (2015) Incidence of Wooden Breast Disease and its correlation with broiler performance and ultimate pH of breast muscle. *XXII European Symposium on the Quality of Poultry Meat*.
- Abasht, B., Fu, W., Mutryn, M., Brannick, E.M. & Lee, W. (2015) Identification of gene expression biomarkers associated with severity of Wooden Breast disease in broiler chickens. *XXII European Symposium on the Quality of Poultry Meat*.

PRESENTATION OF WORK

Plant & Animal Genome Conference (PAG XXIII)—San Diego, CA **1/2015**

- Presented abstract, titled: "Characterizing a novel muscle myopathy in commercial chicken through differential gene expression".

Plant & Animal Genome Conference (PAG XXII)—San Diego, CA **1/2014**

- Presented abstract, titled: "Using RNA-sequencing to characterize a novel muscle disorder in chickens through differential gene expression and pathway analysis".

WORK EXPERIENCE

Intern, Institute for Environmental Solutions (IES)—Denver, CO **1/2016-current**

- Part-time intern for the Institute for Environmental Solutions.
- Contributed to various aspects of IES projects including general operations, research, community education, grant writing, outreach, fundraising, and social media.

Assistant Women's Lacrosse Coach, Swarthmore College—Swarthmore, PA **9/2012-6/2015**

- Assistant coach for the NCAA Division III varsity Swarthmore Women's Lacrosse team
- Responsible for assisting in all duties assigned by the head coach including assisting in daily practice, scheduling, practice planning, film evaluation, and scouting reports.

Equine Veterinary Assistant—Saratoga Springs, NY **5/2011-8/2011 & 5/2012-9/2012**

- Accompanied the primary veterinarian, Dr. Axel Sondhof, for a total of over 1000 hours.
- Assisted in surgical procedures including administering anesthesia and injections.
- Assisted in examinations for lameness, including administering X-rays and ultrasounds.
- Ran laboratory samples for blood count testing and Lyme's disease.

Animal Caretaker—Schuylerville, NY **5/2010-9/2010**

- Worked at Stone Bridge Farm, a major New York thoroughbred breeding farm, under barn manager Sue Vitro; worked primarily with mares and foals. Totaled over 600 hours.
- Performed daily care operations of around 100 thoroughbreds per day including feeding, cleaning, drug administration, and handling.

LEADERSHIP EXPERIENCE AND ACTIVITIES

Varsity Athlete, Swarthmore Women's Lacrosse—Swarthmore, PA **8/2008-5/2012**

- Captain of the Swarthmore Varsity Women's Lacrosse team 2012: organized practices and team events, coordinated team meetings, produced comprehensive team goals, acted as liaison between coaches and players.
- Four year starter (2008-2012) and contributed greatly to the success of the program. Helped lead the team to first conference play-off win in program history in 2012.

Varsity Athlete, Swarthmore Women's Soccer—Swarthmore, PA **8/2008-5/2012**

- Captain of the Swarthmore Varsity Women's Soccer team 2012: acted as liaison between coaches and players, helped to motivate team members by setting good examples both on and off the field.
- All-Conference player as a sophomore (2009) and led the team to 3 consecutive ECAC championships. Led the team to 3 consecutive play-off appearances.

AWARDS

GSAC Outstanding Publication, University of Delaware—Newark, DE **11/9/2015**

- Awarded the college-wide Outstanding Publication Award 2015 by University of Delaware's Graduate Student Advisory Committee

May E. Parry Award, Swarthmore College—Swarthmore, PA **4/30/2012**

- Awarded the May E. Parry Award in April 2012.
- The May E. Parry Award is presented to the senior woman who, by her loyalty, sportsmanship, and versatility in athletics, has made a valuable contribution to Swarthmore College.

SKILLS AND INTERESTS

Computer: Microsoft Office Suite, Unix Command Basics, JMP, DAVID, PATHER, IPA software.
Interests: Australian shepherds, dog agility, cats, sports, coaching, hiking, and music