



## EDUCATION

- 2012 - 2014 **University of Toronto**  
Toronto, ON Master of Science in Biomedical Communications (Dean's List)
- 2007 - 2012 **University of Guelph**  
Guelph, ON Bachelor of Science in Environmental Sciences, Major in Ecology (Dean's Honours)
- 2004 - 2007 **Earl Haig Secondary School**  
Toronto, ON Claude Watson Arts Program, Visual Arts Major (Honours)

## CONTINUING EDUCATION

- 2018 **Certified Medical Illustrator**  
Toronto, ON Completed
- 2014 **University of Toronto, School of Continuing Studies**  
Toronto, ON Public Health and Science Writing

## WORK EXPERIENCE

- 2016-present **AXS Studio Inc., Medical Illustrator**
- Preproduction work (visual/scientific literature research, storyboards and wireframes)
  - Modelling, sculpting and texturing 3D assets for VR, AR and game development
  - Creation of mood boards and conceptualization of sample renders
- Oct 2014 - 2016 **Perioperative Interactive Education (PIE), Specialist-Multimedia Biomedical Communications**  
Toronto, ON Toronto General Hospital, Department of Anesthesia
- Provided creative vision and proposal to secure a \$25k funding to jump start a 2D motion graphic and 3D animation division for patient education
  - Expanded partnerships within University Health Network to build a growing library of patient education materials
  - Translated ideas from clinicians into scripts and storyboards
  - Brought animations to life with effective sound design and voice overs
- 2013 & 2014 **Perioperative Interactive Education, Intern**  
Summer  
Toronto, ON Toronto General Hospital, Department of Anesthesia
- Combination of operating room observation and research to produce an educational video depicting a laparoscopic cholecystectomy procedure for surgical residents.
- May 2012 - Aug 2013 **Institute of Medical Science Research Video Pilot Series, Intern**  
Toronto, ON University of Toronto, Institute of Medical Science
- Interviewed researchers and filmed B-roll footage to create promotional videos
- March 2013 - November 2013 **Toronto Notes for Medical Students, Art Editor**  
Toronto, ON University of Toronto, Faculty of Medicine
- Acted as a liaison between a team of medical illustrators and Toronto Notes to create a reference manual with visual aids for medical licensing exams
- May 2011 - April 2012 **Insect Systematics Lab, Scientific Illustrator/ Research Assistant**  
Guelph, ON University of Guelph- Ontario Ministry of Agriculture and Food Rural Affairs
- Published an interactive identification key (~200 images) to stink bugs
  - Dissected, cleared and mounted specimen for the illustration of genitalia
- 2011 - present **Independent Contractor, Medical and Scientific Illustrator**  
Toronto, ON
- Provided creative briefs and budgets to ensure that projects hit client goals
  - Recruited talent to provide production/content expertise to complete time sensitive projects
  - Interpreted client messaging and branding to create strategic and compelling scientific media



## LIST OF PRESENTATIONS

- 2014 **Biocommunication Academic Meeting**  
Toronto, ON
  - ["Sketchfab: Embedding an interactive 3D viewer"](#) as a workshop that shared my knowledge of optimizing models for Sketchfab (a WebGL application)
- 2011, 2012 **Ontario Fruit and Vegetable Convention and Emergency Management Research Expo**  
Niagara, ON  
Guelph, ON
  - Tested usability of the interactive stink bug identification key prototype

## LIST OF PUBLICATIONS

Pairo, S. M., Marshall, S. A., McPherson, J. E., Ma, M-S. (2013). Stink bugs (Pentatomidae) and parents bugs (Acanthosomatidae) of Ontario and adjacent areas: A key to species and a review of the fauna. *Canadian Journal of Arthropod Identification*. 24, 1.

## AWARDS & ACHIEVEMENTS

- 2013- 2018 **Assistant Captain of Canadian Kendo Team, placed 3<sup>rd</sup> and top 8**  
17<sup>th</sup> World Kendo Championships, Incheon Korea - placed 3<sup>rd</sup>  
16<sup>th</sup> World Kendo Championships, Japan - placed top 8
- 2014 **Award of Merit - Student Didactic/ Instructional/ Anatomical Category**  
Association of Medical Illustrators
- 2013 & 2014 **Educational Information Technology Summer Student Program Award**  
University of Toronto, Faculty of Medicine, Office of Integrated Medical Education
- 2013 **Research Stipend**  
University of Toronto, Department of Immunology
- 2012 **Institute of Medical Science Entrance Award**  
University of Toronto, Institute of Medical Science
- 2011 **The Undergraduate Student Experiential Learning Project**  
University of Guelph and Ontario Ministry of Agriculture and Food
- 2011 **Emergency Management Research Expo, Best Poster Design**  
University of Guelph and Ontario Ministry of Agriculture and Food
- 2009 **Runner Up**  
Microsoft Zune Campus Art Competition

## VOLUNTEER EXPERIENCE

- 2014 to present
  - Kendo Ontario, *Event coordinator/coach for activities and seminars across Ontario*
  - Etobicoke Kendo Club, *Coach*

## TECHNICAL SKILLS

### Illustration

- Adobe Photoshop
- Adobe Illustrator
- InDesign

### 3D Modelling

- Autodesk Maya
- Zbrush
- Daz Studio

### Compositing

- Adobe Premiere Pro
- Adobe After Effects
- Adobe Audition

### Game look development

- Unity