

# Agnes Chan

*MScBMC, BSc*

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## Education

**2011 - 2013**

**MScBMC *Master's of Science in Biomedical Communications***

*Institute of Medical Science, Faculty of Medicine, University of Toronto*

Master's research project involved developing a 3D prototypal interactive application to view an animal cranium. Included elements of CT data processing, 3D modelling and refinement, and application development in a 3D gaming engine.

**2007 - 2011**

**BSc (Hons) *Bachelor of Science (Honours)***

*Department of Life Sciences, Faculty of Science McMaster University*

Major in Life Sciences (specialization in Origins Research) & Minor in Psychology.

Undergraduate thesis: The stabilizing effects of diversity across levels of ecosystem organization in natural aquatic microcosms.

## Digital Media Production Skillsets

**Web Languages & Design**

- Proficient in HTML5 and CSS3
- Experience with server-side scripting using PHP and MySQL database
- Has used JQuery and other JavaScript libraries in website and web application projects
- Experience with responsive web designs for mobile device optimization

**Content Management Systems & Web Hosting**

- Has developed and managed websites using WordPress
- Some experience with Joomla and Drupal
- Has used cPanel for hosting and developing client sites

**Digital Media Production Software**

***Adobe Dreamweaver*** – Website coding and development

***Adobe Fireworks*** – Prototyping and UI wireframing

***Adobe Flash*** – Interactive application development

***Adobe Illustrator*** – Vector digital image assets and illustrations; layout

***Adobe Photoshop*** – Realistic illustrations and image editing

***Maxon Cinema4D*** – 3D modelling

***OsiriX*** – Extracting 3D objects from medical scan data

***Unity3D*** – Cross-platform 3D gaming and application development

**Project Management Solutions**

***Google Drive & Calendar*** – Organizing tasks and assignments via real-time, shared documents

***Dropbox*** – Project assets sharing and management

***Skype*** – Long-distance conferences

## Research Experience

- 2012 - 2013**      **OsteoScope Master's Research Project**  
*Biomedical Communications, University of Toronto*  
 An exploratory research project on processing 3D-imaging data of cranial specimens and development of an interactive 3D viewing application. Developed a workflow for refining and optimizing CT-derived 3D models for incorporation into animations or applications.
- 2010 - 2011**      **Life Sciences Undergraduate Thesis**  
*Department of Life Sciences, McMaster University*  
 Community ecology; the stabilizing effects of diversity across levels of ecosystem organization in natural aquatic microcosms. Demonstrated trends of increased community stability with greater biodiversity.
- 2009**              **Operation Wallacea**  
*Conservation Research Assistant*  
 Assisted primary researchers with conservation projects in Honduras - arthropod biodiversity cataloguing in Cusuco National Park, and survey of reptile species in Cayos Cochinos. Duties included field illustrations, photography, and sample collection.

## Work Experience

- 2013 - present**      **Reptilia – Reptile Zoo and Education Facility**  
*Zookeeper & Education Intern*  
 Assists zookeepers with the day-to-day care of the facility's 500 animals of over 100 species. Currently in the process of developing a series educational signs for the zoo to educate guests on reptile conservation.
- 2006 - present**      **Heman Shih Architect Inc.**  
*Web Developer & Office Assistant*  
 Currently developing company website for promotional purposes. Other responsibilities include creating inventories and cataloguing, data entry, and display board designs.
- 2013**                **Rescue Science, University of Toronto**  
*Contract Illustration*  
 Produced an illustration depicting an external aortic compression (EAC), an emergency procedure used by nurses and paramedics to stop an aortic hemorrhage by applying external pressure to the abdomen. The illustration was developed in collaboration with a nursing student, and will be used in publications about the procedure.
- 2013**                **The Hospital for Sick Children, Division of Plastic and Reconstructive Surgery**  
*Contract Illustration*  
 Produced an illustration depicting an experimental procedure on imaging neuronal regeneration of the sciatic nerve in neonatal rats following a crush injury. The illustration was developed in collaboration with a postdoctoral fellow to accompany his research manuscript submission for publication in a research journal.

## Work Experience *(cont.)*

- 2011–2013**      **Biomedical Communications, University of Toronto**  
*Web Technology Development Assistant*  
Created content and assets for a new website within the framework of a content management system (WordPress). Other responsibilities include computer lab maintenance, website management, liaising between faculty and students, and promoting the Biomedical Communications program to prospective students.
- 2012**            **Toronto Notes, Faculty of Medicine, University of Toronto**  
*Medical Illustrator*  
Produced a series of novel and revision anatomical illustrations for a student handbook used in undergraduate teaching in the Faculty of Medicine, University of Toronto

## Volunteer Experience

- 2013**            **Daffydil 2013, Faculty of Medicine, University of Toronto**  
*Website Developer*  
Developed a promotional website for an annual theatre production performed by medical students to raise money for the Canadian Cancer Society.
- 2012**            **ASCM Clinical Skills Handbook, Faculty of Medicine, University of Toronto**  
*Medical Illustrator*  
Produced two illustrations depicting abdominal surface landmarks for a clinical skills handbook used in undergraduate teaching in the Faculty of Medicine, University of Toronto.
- 2010–2011**      **McMaster Dragon Boat Club, McMaster University**  
*Coach, Executive Member, and Secretary*  
Facilitated team communication via email and social network. Managed content on the team website (WordPress). Acted as a leader and coach to promote the sport, teamwork, and physical fitness.
- 2010-2011**      **Department of Biology, McMaster University**  
*Freshwater Ecology Research Laboratory Assistant*  
Duties included field sample processing, data entry, data analysis, and presentation using statistical software.

## Professional Activities

- July 2013**      **68<sup>th</sup> Meeting of the Association of Medical Illustrators, Salt Lake City**  
Student participant and Vesalius Trust research poster presenter.
- April 2013**      **2013 Johns Hopkins Department of Art as Applied to Medicine Student Exchange**  
Student exchange for the North American biomedical visualization programs.

## Professional Activities *(cont.)*

- September 2012*      **22<sup>nd</sup> Canadian Palaeontologist Conference, Toronto, Canada**  
Student participant.
- July 2012*            **67<sup>th</sup> Meeting of the Association of Medical Illustrators (AMI), Toronto**  
Student participant and student salon entrant
- July 2012*            **3<sup>rd</sup> Comics & Medicine Conference, Toronto**  
Student participant and volunteer.
- 2009-2011*          **Origins Institute Colloquia, McMaster University**  
Participated in research presentations given by visiting lecturers discussing cross-disciplinary topics.
- May 2009*            **Darwin's Legacy Conference, McMaster University**  
Student participant and volunteer.

## Awards & Scholarships

- 2013*                 **Vesalius Trust Research Poster Session 2013 – Honourable Mention**  
Recognition for one of the best three poster in the session based on organization and quality of content and figures.
- 2012*                 **University of Toronto Open Fellowship Award**  
Awarded based on academic performance within Masters of Science program.
- 2009*                 **University (Senate) Scholarship, McMaster University**  
Awarded for achieving an average grade in the top 10-15<sup>th</sup> percentile of the class in the previous academic year.
- 2007*                 **President's Award, McMaster University**  
Awarded for entering McMaster University with a final admission grade average of 95% or more.

## References

**Heman Shih**

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***Employer***

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**Michael Corrin**

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***Employer***

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**Dave Mazierski**

*CMI, MSc, BScAAM*

***Master's Research Project Supervisor***

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