

CURRICULUM VITAE  
**THEODORE A. UYENO**

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**EDUCATION**

UNIVERSITY OF CALGARY, Alberta, Canada

B.Sc., Biology, June 1997

Senior thesis: The development of the functional morphology of gas exchange structures and respiratory behavior in the apple snail *Pomacea bridgesi*

UNIVERSITY OF CALGARY, Alberta, Canada

M.Sc., Zoology, December 1999 (Advisor: Dr. George B. Bourne)

Thesis: Comparative morphology and evolutionary trends in the class Gastropoda through three-dimensional tomography and DNA sequence analysis

UNIVERSITY OF NORTH CAROLINA, Chapel Hill, North Carolina

Ph.D., Biology, August 2007 (Advisor: Dr. William M. Kier)

Dissertation: The functional biomechanics of the muscle articulation: A new class of soft tissue joint

NORTHERN ARIZONA UNIVERSITY, Flagstaff, Arizona

Postdoctoral Research Fellowship June 2007 (Advisor: Dr. Kiisa C. Nishikawa)

**AWARDS, FELLOWSHIPS & RESEARCH FUNDING**

- 2006 Inducted to the Frank Porter Graham Graduate & Professional Student Honor Society for exemplary service to the University of North Carolina at Chapel Hill
- 2005 Lerner-Gray Fund for Marine Research Grant  
Sigma Xi Grant-in-Aid of Research Award  
UNC-CH Student Undergraduate Research Fellowship Mentor Award  
Society for Integrative and Comparative Biology, Best Student Poster Award
- 2004 UNC-CH H.V. Wilson Summer Research Scholarship
- 2003 UNC-CH Graduate School Travel Fellowship  
UNC-CH H.V. Wilson Summer Research Scholarship  
Society for Experimental Biology 2003 Student Travel Grant
- 2002 UNC-CH H.V. Wilson Summer Research Scholarship
- 2001 American Microscopical Society Summer Research Fellowship
- 1999 U-Calgary Faculty of Graduate Studies Travel Fellowship  
U-Calgary Learning Commons Academic Project Grant  
Duke University Center for *In Vivo* Microscopy, Magnetic Resonance Microscopy project support funding
- 1998 U-Calgary Graduate Student Association Academic Project Grant

## **TEACHING EXPERIENCE**

- 2006 Teaching Assistant: Human Anatomy & Physiology, Spring  
Undergraduate Mentor: Ms. Michelle Lee
- 2005 Teaching Assistant: Animal Behavior, Fall  
Teaching Assistant: Human Anatomy & Physiology, Spring  
Undergraduate Mentor: Mr. Michael Stella  
Assistant Lecturer: Comparative Physiology, Fall
- 2004 Teaching Assistant: Human Anatomy & Physiology, Fall  
Head Teaching Assistant: Invertebrate Biology, Spring  
Assistant Lecturer: Invertebrate Biology, Spring  
Undergraduate Mentor: Mr. Brendon Mitchell
- 2003 Teaching Assistant: Introductory Biology, Fall  
Teaching Assistant: Invertebrate Biology, Spring
- 2002 Teaching Assistant: Human Physiology, Fall  
Teaching Assistant: Invertebrate Biology, Spring
- 2001 Teaching Assistant: Human Anatomy, Fall  
Teaching Assistant: Comparative Physiology, Spring
- 2000 Teaching Assistant: Human Anatomy, Fall
- 1998 Course Development Assistant, Introductory Biology, Fall  
Head Teaching Assistant: Invertebrate Biology, Spring
- 1997 Teaching Assistant: Introductory Biology, Fall

## **PUBLICATIONS**

- In preparation Uyeno, T.A., M. Hooge, and W.M. Kier. The proboscis hooks and musculature of an interstitial flatworm (sp. Novo, Kalyptorhynchia, Turbellaria) as a muscle articulation.
- Uyeno, T.A., J. Voltzow. The evolution of the tarsic musculature in the feet of gastropod mollusks.
- Uyeno, T.A. and W.M. Kier. The functional morphology of the nereid pharyngeal bulb: a flexible joint made of muscle and connective tissue.
- 2007 Uyeno, T.A. and W.M. Kier. Electromyography of the buccal musculature of octopus (*Octopus bimaculoides*): a test of the role of the muscle articulation in support and movement. *Journal of Experimental Biology*. 210:118-128.
- Uyeno, T.A. and H.S. Hsiao. A novel device to monitor small changes in underwater distances. *Invertebrate Biology*. 126(3): 310-317.
- 2005 Uyeno, T.A. and W.M. Kier. Functional morphology of the cephalopod buccal mass: a novel joint type. *Journal of Morphology*. 264:211-222.
- 1996 Uyeno, T.A. Chemputing: Making your presence in the World Wide Web. *Canadian Chemical News*. 48(3):4.

## **ORAL AND POSTER PRESENTATIONS**

- Uyeno, T.A. & W.M. Kier 2007. The structure and function of the hooks of a turbellarian flatworm: a *vermetically* sealed muscle articulation. (Abstract and talk of the Vogel Symposium in the 2007 SICB meeting 4-8 Jan., Phoenix, AZ, USA)
- Uyeno, T.A. & W.M. Kier 2006. The muscle articulation in polychaetes and cephalopods: joints made of multifunction muscle. (Abstract and talk in the 2006 SICB meeting, 4-8 Jan., Orlando, FL, USA.)
- Uyeno, T.A. & W.M. Kier 2005. The function of cephalopod buccal mass musculature. (Recipient of the Division of Invertebrate Zoology Best Student Poster Award at the 2005 SICB meeting, 4-8 Jan., San Diego, CA, USA.)
- Uyeno, T.A. & M. Niessen 2003. The cephalopod buccal mass as a muscle articulation: a novel joint type. (Abstract and talk in the 2003 SEB meeting, 31 Mar. – 4 Apr., Southampton, UK)
- Uyeno, T.A. 2002. How squids bite: the functional morphology of cephalopod beaks and mandibular muscles. (Abstract and poster in the 2002 SICB meeting, 2-6 Jan., Anaheim, CA, USA)
- Uyeno, T.A. 1999. Evolutionary development of the gastropod locomotory muscular hydrostat as resolved by 3-D magnetic resonance tomography and 18S ribosome DNA sequences. (Abstract and poster in the 5th International Congress of Comparative Physiology and Biochemistry, 23-28 Aug., Calgary, AB, Canada)

## **PROFESSIONAL SERVICE**

- 2006 Peer manuscript review – Journal: *Palaöntologische Zeitschrift*
- 2003- 2006 University of North Carolina Biology Department Beekeeper, for courses in Animal Behavior, Invertebrate Biology, and independent projects in neurobiology and parasite/host interaction/evolution studies.
- 2001- 2003 Biology Graduate Student Union Member: yearly honorary seminar organizer, University of North Carolina, Chapel Hill.
- 1997- 1999 City of Calgary Youth Science Fair Judge, University of Calgary, Alberta.

## **PROFESSIONAL SOCIETIES AND ACCREDITATIONS**

Society for Integrative and Comparative Biology  
Society for Experimental Biology  
Sigma Xi  
American Microscopical Society  
American Malacological Society  
PADI advanced open water SCUBA  
North Carolina State Beekeeping Society – Certified Beekeeper

LIST OF CONTACT INFORMATION FOR REFERENCES  
**THEODORE A. UYENO**

- **Dr. William M. Kier**  
Bowman and Gordon Gray Professor of Biology, Ph.D. Advisor  
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- **Dr. George B. Bourne**  
Associate Professor, Associate Dean (Faculty of Science)  
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- **Dr. Kenneth J. Lohmann**  
Professor of Biology, Neurobiology  
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The University of North Carolina at Chapel Hill  
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- **Dr. Kiisa C. Nishikawa**  
Regents' Professor of Biology  
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