

JAN GOGARTEN  
April 20<sup>th</sup>, 2012  
jan.gogarten@gmail.com and (438) 823-1227  
Doctoral student  
Department of Biology  
McGill University  
Montreal, QC H3A 2T5  
<http://gogarten.com/jangogarten/>

**ACADEMIC BACKGROUND:**

Doctor of Philosophy McGill University, Montreal, QC · Department of Biology · Advisor: Colin Chapman	2011-Present
Masters of Arts State University of New York, Stony Brook University · Thesis title: The effects of seasonality on mortality and reproductive skew · Department of Anthropology: Concentration in Physical Anthropology · Advisor: Diane Doran-Sheehy · Committee: Patricia Wright and Andreas Koenig · cGPA: 3.69	2009-2011
Bachelor of Science: Honors Biology and a Minor in Anthropology McGill University, Montreal, QC · First Class Honours in Biology · Final cGPA: 3.86	2005-2008
Previous Undergraduate Studies Wesleyan University, Middletown, CT · Final cGPA: 3.72	2004-2005
High School Diploma E.O. Smith High School, Storrs, CT	2004

**PUBLICATIONS:**

Chapman CA, Bowman DD, Ghai RR, Goldberg TL, **Gogarten JF**, Rothman JM, Twinomugisha D, and Walsh C. (2011) Protozoan parasites in group-living primates: Testing the biological island hypothesis. *American Journal of Primatology*. *Early view*.

**Gogarten JF**, Brown LM, Chapman CA, Marina C, Doran-Sheehy D, Fedigan LM, Grine FE, Perry S, Pusey AE, Sterck EHM, Wich SA, Wright PC (*In Press*). Seasonal mortality patterns in non-human primates: Implications for variation in selection pressures across environments. *Evolution*.

Chapman CA, **Gogarten JF**. (*In Press*) Primate conservation: Is the cup half empty or half full? *Nature education knowledge*.

**Gogarten JF** and Koenig A. (*In review*) Does seasonality predict receptive synchrony and male

reproductive skew among nonhuman primates? Behavioral Ecology.

**Gogarten JF**, Guzman M, Chapman CA, Jacob AL, Omeja PA, and Rothman JM. (*Submitted*) What is the predictive power of the colobine protein-to-fiber model? Primates.

Bargelletti O, **Gogarten JF** and Krahe R. (*Submitted*) Mate preference in wave-type weakly electric fish. Journal of Physiology - A

#### **NON-REVIEWED PUBLICSTIONS:**

**Gogarten JF**. (2008) The Life of *Apteronotus rostratus*, a Panamanian Species of Weakly Electric Fish: A Field Study. A report for the Smithsonian Tropical Research Institute; Advisors: Rüdiger Krahe and Eldredge Bermingham.

**Gogarten, JF**. (2007) Mate Choice in Weakly Electric Fish. McGill University Undergraduate Honors Thesis; Advisor: Rüdiger Krahe.

#### **RESEARCH INTERESTS:**

- Primate behavioral ecology and disease; specifically what behaviors put animals at risk for infection and what behavioral strategies animals may adopt to reduce their risk.
- Conservation applications for research.
- The evolution of communication signals, optimization of conservation strategies, socioecological constraints, animal behavior, sustainable ecosystem use, and the evolution and cost of sociality.

#### **WORKS IN PROGRESS:**

A comparison of red colobus living in fragments and forests in Uganda (*Manuscript Drafted*) In collaboration with Devin Hart, Carl Boodman and Colin Chapman.

Primates as ecosystem engineers (*Manuscript Drafted*). In collaboration with Colin Chapman, Dennis Twinomugisha, Patric Omeja, Michael Wasserman, and Jessica Rothman.

Changing group sizes in a primate community over 15+ years: Implications for the non-equilibrium of an ecosystem (*Manuscript Drafted*). In collaboration with Ria Ghai, Aerin Jacob, Jessica Rothman, Dennis Twinomugisha, and Colin Chapman.

Seasonal mortality patterns in primates: Implications for the interpretation of microwear. (*Manuscript Drafted*) In collaboration with Frederick Grine.

Optimal growth temperature of thermotoga: Testing evolutionary models and ancestral character state reconstruction. (*Manuscript Drafted*) In collaboration with Anna Green, Kristen S. Swithers, J. Peter Gogarten

Long-term changes in the patterns of polyspecific associations of red colobus. (*Manuscript Drafted*) In collaboration with Colin Chapman

An examination of the effect of group size on the behaviour of a folivorous primate (*Manuscript Drafted*) In collaboration with Colin Chapman.

Spatial epidemiology of primate parasites at Kibale National Park (*Data collection and analysis stage*). In collaboration with Colin Chapman, Ria Ghai, Johanna Bleecker, and Tony Goldberg.

Hard lessons learned along the way: Parasite methods in primatology (*Data collection and analysis*). In collaboration with Dwight Bowman, Colin Chapman, Jessica Rothman, Chesley Walsh, Ria Ghai, Tony Goldberg, and Laura Johnson

Developing a disease screening protocol for respiratory pathogens at great ape habituation sites (*Grant writing*). In collaboration with Fabian Leendertz and Peter Walsh.

#### **RESEARCH ACTIVITIES:**

Field research: Kibale National Park, Uganda Summer 2011  
Topic: Spatial epidemiology and the interaction of primate behavior and parasites  
- Work supervised by Colin Chapman of McGill University

Visiting researcher: Primate parasites Summer 2010  
Topic: Learning laboratory techniques and assisted on several projects.  
· Work supervised by Colin Chapman of McGill University.

Field Assistant: Behavioral Ecology of Wild Capuchin Monkeys January 2009 - June 2009  
Topic: Collection of behavioral data and hormonal samples from a well-habituated population of wild capuchin monkeys (*Cebus capucinus*)  
· Work supervised by Colleen Gault of Emory University and Susan Perry of UCLA  
· Data collection involved all day (12-13 hours) focal follows of individual monkeys  
· Work also involved visits to local elementary schools to teach young Costa Rican children about the monkeys and forests of their country

Research Technician Level II: Macaques October 2008 – December 2008  
Topic: MRI data analysis at Wake Forest University School of Medicine, Department of Neurobiology and Anatomy  
· Work supervised by Christos Constantinidis and Ramnarayan Ramachandran  
· Examination of MRI images of macaques and data analysis with Matlab, Caret, MRICro(n), and Microsoft Access

Field Research in Mexico, Yucatan Peninsula June 2008 – August 2008  
Topic: Capture and radio collaring of the endangered King Vulture (*Sarcoramphus papa*), and examination of nest success and behavior of the endemic Black Catbird (*Melanoptila glabrirostris*)  
· Supervised by Professor Calmé of Sherbrooke University and Blanca Roldan of El Colegio de la Frontera Sur.  
· Measuring nesting success of Black Catbirds and relating it to human disruption of the environment and trapping and prolonged individual observation of King Vultures

Field Research in Panama January 2008 – April 2008  
Topic: Examination of Wild Populations of the ghost knifefish *Apteronotus rostratus*  
· Supervised by Professor Birmingham of the Smithsonian Research Institute in Panama and Professor Krahe of McGill University  
· Study of *Apteronotus rostratus* in the wild to determine the distribution of electric organ discharge frequencies in natural populations as well as population density, distribution, sex composition, and attraction to conspecific electric signals  
· Investigated evolution of communication systems and the role of female mate preference in shaping natural population distribution and population characteristics

Research Volunteer

Summer 2007- Winter 2008

Topic: Mate Choice in Weakly Electric Fish

- Supervised by Rudiger Krahe, McGill University Neuroethology Lab
- Completed work by Olivia Bargelletti on female mate preference
- Preparing for field work; set up and tested field equipment for recordings in the field

BIO 499: Honours Project

2006 – 2007

Topic: Mate Choice in Weakly Electric Fish

- Supervised by Rudiger Krahe, McGill University Neuroethology Lab
- Testing female weakly electric ghost knifefish (*Apteronotus leptorhynchus*) and their responsiveness to different male conspecific signals
- Use of Matlab and a wide variety of stimulus isolators, amplifiers, signal generators and other tools for electric signal analysis

Biology Research Project

Fall 2004-Spring 2005

Topic: Ortholog Analysis in Cyanobacteria

- Supervised by Frederick M. Cohan, Wesleyan University
- Helped create a genome database to examine genomic diversity in cyanobacteria from two Yellowstone hot springs along with data from the Sargasso Sea
- Examined diversity, ecotype adaptation and genes unique to certain ecotypes using large genomic databases

#### **TECHNICAL AND SPECIALIZED SKILLS**

- Experience with Excel, Word, PowerPoint, Dreamweaver, Adobe Photoshop, Adobe Illustrator, MatLab, Blast, Clustalw, COMPARE, and other bioinformatics tools
- Programming experience in PERL, SQL, and R
- Molecular Biology Skills: PCR, In Situ Hybridization, Gene cloning, Protein Extraction, Electrophoresis, Primer Design, and 2D-PAGE
- MIG Welding – Interned with Artist Tibor Timar

#### **DISCUSSION GROUPS AND MEETINGS**

- Attended the Quebec Centre for Biodiversity Science Symposium - 2011
- Invited presentation at the Galvani Group at Yale University's School of Medicine, Epidemiology and Public Health, and Epidemiology of Microbial Diseases: "Understanding primate infectious diseases: Integrating disciplines" - 2011
- Podium presentation at the 36<sup>th</sup> annual conference of the Quebec Society for the Biological Study of Behaviour: "Long-term changes in primate group sizes: Implications for the disequilibrium of ecosystems and changing behaviour" - 2011
- Eco-Theoretic café - discussion group at McGill University – 2011-present
- Attended the Canadian Association of Physical Anthropology annual meeting at the University of Montreal - 2011
- Attended the Community Phylogenetics Workshop hosted by the Canada Research Chair in Spatial Modeling and Biodiversity and the Quebec Centre for Biodiversity Sciences - 2011.

- Podium presentation at the 80<sup>th</sup> annual meeting of the American Association of Physical Anthropologists: “Does breeding seasonality predict receptive synchrony and reproductive skew among non-human primates?” - 2011
- Attended the Communicating Science Workshop presented by the Center for Communicating Science - 2010
- Selected for and attended the AnthroTree workshop for phylogenetic and comparative methods at Amherst - 2010
- Attended niche modeling and species distribution modeling meetings at the American Museum of Natural History - 2010
- Attended the Darwin Conference at Stony Brook University - 2009
- Behavioral Ecology Discussion Group at Stony Brook University - 2009-2011
- Smithsonian Tropical Research Institute – Podium presentation at the Panama Field Semester Symposium: “La Comunicación y La Vida de los Peces Eléctricos” - 2008
- McGill University – Podium presentation of undergraduate Thesis at the McGill Biology Honours Symposium: “Mate Choice in Weakly Electric Fish” - 2008
- Neurobiology journal club at Wake Forest University - 2008
- Neuroethology Discussion Group at McGill University - 2006-2007
- Organismal Seminar Series at McGill University - 2006-2007

#### **MEMBERSHIPS:**

- Société Québécoise pour l'Étude Biologique du Comportement - 2011-2012
- American Association of Physical Anthropologists - 2011-2012
- New York Academy of Sciences - 2011-2012
- Society for the Study of Evolution - 2012-2013
- International Primatological Society – 2012-2013

#### **TEACHING EXPERIENCE**

- Co-supervised a McGill Biology Undergraduate Honours Research Project by Laura Guzman Uribe: “The effect of former pine plantations on red colobus nutrition and fecundity”
- Guest lecture - ENV 301 - Environmental Research Design – Methods in Ecological Research - Winter 2012
- Guest lecture - ENV 301 - Environmental Research Design –Methods and Design in Animal Behaviour Research - Winter 2012
- Guest lecture - ANTH 311 - Primate Behaviour and Evology - Fall 2011
- Teaching Assistant - ANP 102 - Introduction to Cultural Anthropology - Spring 2011
- Teaching Assistant - ANP 120 - Introduction to Biological Anthropology - Fall 2010
- Laboratory instructor and coordinator - ANP 121 - Biological Anthropology Laboratory - Fall 2010
- Teaching Assistant - ANT 354 - Kinship, Family, and Marriage - Spring 2010
- Teaching Assistant - ANT 200 - Contemporary and Historical Perspectives on Insular Southeast Asia - Fall 2009

#### **PAPERS REVIEWED (11)**

- TAPROBANICA: The Journal of Asian Biodiversity
- Biological Conservation
- Journal of Tropical Ecology
- Conservation Biology
- Evolutionary Anthropology
- International Journal of Primatology
- Global Change Biology (3)
- Primates (2)

### **GRANTS REVIEWED (3)**

National Geographic Society's Committee for Research Exploration (2)

### **HONORS, AWARDS, AND GRANTS**

- McGill University Research Travel Award- \$1,000 - 2012
- McGill University Biology Graduate Excellence Fellowship - \$5,000 - 2011
- Stony Brook Graduate Student Organization's Resource Access Grant - \$350 - 2011
- Stony Brook University's Interdepartmental Program in Anthropological Sciences Travel Award - \$300 - 2011
- Explorer Club's Eddie Bauer Young Explorer Grant – \$12,500 - 2011
- Pollitzer Student Travel Award from the American Association of Physical Anthropologists - \$500 - 2011
- National Science Foundation Graduate Research Fellowship - three years of stipend and tuition - \$122,500 - 2010-2015
- National Science Foundation Graduate Research Fellowship International Travel Award - \$1,000 - 2011
- Travel Award for the AnthroTree workshop - \$150 - 2010
- Stony Brook's Of-The-Month Award for Faculty/Staff Member - Dec. 2010
- Stony Brook University – Full Tuition Scholarship - 2009-2011
- Stony Brook University – Teaching Assistantship - 2009-2011
- McGill University – Dean's Multidisciplinary Undergraduate Research List - 2008
- McGill University – First Class Honours in Biology - 2008
- McGill University – Dean's Honour List - 2005-2006, 2006-2007, 2007-2008
- Wesleyan University – Dean's Honor List - 2004-2005
- E.O Smith High School – Community Outreach and Scientific Accessibility for Senior Thesis on Determinist Chaos – 2004

### **COMMUNITY SERVICE**

- Taught three high school classes on primate behavior and conservation for a Human Behavior course at Edwin O. Smith High School, CT– 2012
- Assisted in teaching the McGill Biology Graduate Student Association's R Statistics Workshops (<https://sites.google.com/site/mcgillbgsa/workshops>) – 2011
- Organized fundraising for the Kibale Health Clinic and started the Condoms For Kibale Initiative to bring 50,000 condoms to the clinic to prevent the spread of HIV/AIDS, give people the tools they need to practice family planning, and

- increase collaboration between the national park and the villagers in the surrounding area - 2011
- Participated in the 'Write to Win' workshop to raise awareness about the NSF GRFP and help Center for Inclusive Education, Alliance for Graduate Education and the Professoriate, Turner and other undergraduate and graduate students prepare competitive NSF GRF applications – 2010
  - Mentor for the Alliance for Graduate Education and the Professoriate and the Center for Inclusive Education's 'Write to Win' program: worked with students from groups underrepresented in science to prepare a competitive NSF GRFP application – 2010
  - Created and maintained the IDPAS' Guide to Grants website; a collection of successful grant applications and suggestions for applying for grants ([http://www.anat.stonybrook.edu/IDPAS/student\\_grants/index.html](http://www.anat.stonybrook.edu/IDPAS/student_grants/index.html)) – 2010-2011
  - Created and maintained the Behavioral Ecology Group website (<http://www.sinc.sunysb.edu/Clubs/beg/generalinformation.html>) - 2009-2011
  - Freewheel bicycle cooperative - Volunteer mechanic – 2009-2011
  - Volunteer Pijije Elementary School, Costa Rica - Environmental education initiative and promoting community involvement in conservation - Spring 2009
  - Laboratory tours to high school students to encourage careers in science – 2007-2008
  - Right to move bicycle cooperative – Volunteer mechanic – 2006-2007

#### **FOREIGN LANGUAGE ABILITIES**

- English fluent, German fluent, Spanish moderate, French moderate, Rutooro basic

References are available upon request