Gil J. B. Henriques

PHD CANDIDIATE • EVOLUTIONARY BIOLOGIST

Biodiversity Research Centre • University of British Columbia, Vancouver • Unceded Musqueam territory

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I am interested in the interplay of evolution and ecology. My current research focuses on the evolution of social behaviours such as cooperation and conflict. Other research topics include sex allocation and biological diversification. I use a theoretical approach (with an emphasis on adaptive dynamics and individual-based simulations), occasionally in combination with empirical work.

Education _

PhD in Zoology BC, Canada

University of British Columbia 2015—present

• Supervised by Michael Doebeli: Mathematical models of social evolution (public good games, cooperation, group selection)

MSc Erasmus Mundus in Evolutionary Biology (summa cum laude)

Sweden & Netherlands

UPPSALA UNIVERSITY & GRONINGEN UNIVERSITY (DUAL DEGREE)

2013-15

• Supervised by Claus Rueffler & Simone Immler (Uppsala): Recombination and diversification in multidimensional phenotypes

MSc Erasmus Mundus in Evolutionary Biology (summa cum laude)

Sweden & Netherlands

UPPSALA UNIVERSITY & GRONINGEN UNIVERSITY (DUAL DEGREE)

2013-15

· Supervised by Ido Pen (Groningen): Queen-worker conflict and sex ratio adjustment in social insects

BSc in Biology (Evolutionary and Developmental Biology)

Portugal

University of Lisbon

2010-13

Other Research Experience _____

MSc research intern France

University of Montpellier 2014

• Supervised by Thomas Lenormand & Yannis Michalakis: Maladaptive sex ratio manipulation in Artemia brine shrimp

Undergraduate researcher (Amadeu Dias fellow)

Portugal

University of Lisbon 2012–13

- Supervised by Francisco Dionisio: Use of λ -virus as biological weapons by $\it E. coli$

Teaching and Outreach _____

Teaching experience

Workshop coordinator BC, Canada

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2020

· Responsibilities include developing & teaching workshops: Introductory R, Intermediate R, Science Reproducibility, the R tidyverse

Graduate Teaching Assistant & Senior Teaching Assistant

BC, Canada

University of British Columbia

2015-20

- Biology Program Graduate Teaching Award (Honorable mention, 2019)
- BIOL 111 (Intro Biology), BIOL 121 (Genetics, Ecology and Evolution), BIOL 234 (Genetics), BIOL 300 (Biostatistics), BIOL 301 (Biomathematics), BIOL 336 (Fundamentals of Evolutionary Biology), ISCI 320 (Research Development Retreat)
- · Responsibilities have included, among others: teaching tutorials and labs, developing curricular material, supervising other TAs, marking

Guest LecturerBC, CanadaUniversity of British Columbia2016-18

• LAW 524 (Methodologies in Law and Policy): two guest lectures on game theory

• BIOL 121 (Genetics, Ecology, and Evolution): guest lecture on speciation

Teaching training

- 2019 Foundations of Pedagogy (FOP): one-term course about evidence-based teaching. Run by CIRTL
- 2016 Instructional Skills Workship (ISW): 24h comprehensive instructor development program. Run by CIRTL
- 2015 Biology TA Professional Development (BioTAP): 14h workshop series about practical teaching skills

Outreach and science communication

- 2020 Freelance science writer Published at iGSN
- 2016 **3 Minute Thesis competition:** Finalist at University of British Columbia, Vancouver
- 2015–16 **Beaty Biodiversity Museum:** Museum educator (volunteer)
- 2015–16 **Let's Talk Science:** Teacher Partnership Program (classroom science teaching at Gibson Elementary K-7 school) Educational activities at the TELUS World of Science Museum

Employment other than Research & Teaching _____

- 2020 **Textbook reviewer** at **Macmillan Learning**: reviewed video content for the 3rd edition of Whitlock and Schluter's *The Analysis of Biological Data*
- 2018–19 Survey coordinator at UBC Graduate Student Society: responsible for running and analysing the annual Student Satisfaction Survey
- 2018–19 Note taker at UBC Centre for Accessibility

Publications

2020	Gil J B Henriques & Matthew M Osmond: Cooperation can promote rescue or lead to evolutionary suicide	Evolution
	during environmental change. [pdf]	74:7 1255–1273
2020	Andrés E Quiñones, Gil J B Henriques , & Ido Pen: Queen-worker conflict can drive the evolution of social	Evolution
	plymorphism and split sex ratios in facultatively eusocial life cycles. [pdf • digest]	74:1 15-28
2019	Gil J B Henriques, Simon Burton, Yaroslav Ispolatov & Michael Doebeli: Acculturation drives the evolution of	f PNAS
	intergroup conflict. [pdf • press • press]	116:28 14089-14097
2016	Eva J P Lievens, Gil J B Henriques , Yannis Michalakis & Thomas Lenormand: Maladaptive sex ratio	Current Biology
	adjustment in the invasive brine shrimp Artemia franciscana. [pdf • digest]	26:11 1463-1467

Conference talks and posters _____

2019	Mathematical Models in Ecology and Evolution. Gil J B Henriques, Burton Simon, Yaroslav Ispolatov,	Talk
2019	Michael Doebeli: Acculturation drives the evolution of intergroup conflict	Lyon, France
	UBC Zoology Grad Student Association Spring Research Symposium. Gil J B Henriques, Matthew M	Talk
2019	Osmond: During environmental change, cooperation can promote rescue or lead to evolutionary suicide	Vancouver, Canada
	Eco-Evo Retreat Conference. Gil J B Henriques, Burton Simon, Yaroslav Ispolatov, Michael Doebeli:	Poster
2018	Acculturation drives the evolution of intergroup conflict	Squamish, Canada
	Evolution. Gil J B Henriques, Andrés E Quiñones, Ido Pen: Queen-worker conflict can drive the evolution of	Poster
2017	social polymorphism and split sex ratios in facultatively eusocial life cycles. Ruth Patrick Best Poster Award	Portland, USA
	Eco-Evo Retreat Conference. Gil J B Henriques, Michael Doebeli: Social evolution in continuous public	Poster
2015	goods games – Research proposal	Squamish, Canada
	MEME Summer School. Queen-worker conflict can drive the evolution of social polymorphism and split sex	Talk
2015	ratios in facultatively eusocial life cycles.	Munich, Germany
2013	Amadeu Dias Foundation Conference. Gil J B Henriques, Francisco Dionisio. Use of λ -virus as biological	Poster
	weapons by <i>E. coli</i>	Lisbon, Portugal

Competitive (merit-based) fellowships, scholarships and awards _____

2019	Zoology Graduate Fellowship: awarded by the Zoology Department at UBC	15,000 CAD
2019	Biology Graduate TA Award: awarded by the Biology Program at UBC	Honorable Mention
2017	Ruth Patrick Student Poster Award: awarded by the American Society of Naturalists	1000 USD
2017	Charles CC Wong & George Shen Fellowships: awarded by St John's College at UBC	4000 CAD
2013-15	MEME Consortium Scholarship: awarded by the European Commission	21,500 EUR
2012-13	Amadeu Dias Fellowship: awarded by the Amadeu Dias Foundation	1900 EUR

Languages _____

AUGUST 2020

Coding R (advanced) • Mathematica (intermediate) • C++ (beginner) • Matlab (beginner)

Portuguese (first language) • English (fluent, C2) • French (intermediate, B1) • Swedish (intermediate, B1)

• Spanish (elementary, A2) • Latin (beginner, A1) • Codes indicate CEF reference levels

Service

- 2020 **Peer reviewer** for *Ecological Complexity* and *Ecology and Evolution*
- 2018–20 Executive Committee & Bargaining Committee at CUPE 2278, UBC
- 2016–17 **Social Justice Committee co-chair** at St John's College, UBC
- 2011–12 **Pedagogic Board alternate member** at Faculty of Science, University of Lisbon