

Malgorzata Anna Gazda

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Professional Experience

- 17/08/2020-present **Postdoctoral Fellow** at DYOGEN supervised by **Camille Berthelot**, the Institute of Biology of the Ecole Normale Supérieure, CNRS, INSERM, Université PSL, Paris, France (**comparative and functional genomics**).
- 10/09/2018-23/10/2018 **Visiting scholar**, Tracy Larson lab Biology Department, University of Virginia, Charlottesville, USA (**neuroscience and functional assays**).
- 01/02/2017-15/04/2017 **Visiting scholar**, Joe Corbo lab, Washington University in St. Louis, School of Medicine, St. Louis, USA (**functional assays**).
- 01/08/2016-31/01/2017 **Visiting PhD student**, Leif Andersson lab, Uppsala University, Uppsala, Sweden (**bioinformatics**).
- 25/02/2019-24/05/2019 **EMBO Short Term Fellow**, Tom Gilbert lab, Natural History Museum of Denmark, Evolutionary Genomics, Copenhagen, Denmark (**wet & dry lab**).
- 01/11/2013- 0/09/2015 **Research assistant**, Museum and Institute of Zoology, Polish Academy of Sciences, Warsaw, Poland.
- 26/09/2014-15/01/2015 **Fieldwork with birds in New Caledonia**.
- 01/11/2013 -5/09/2014, 20/01-31/08/2015 Lab-work in the molecular biology laboratory at Molecular Zoology in Technical University Munich, Germany.

During my PhD

Education

- 01/10/2015-31.01.2020 **BIODIV PhD Programme, CIBIO, University of Porto, Portugal**
Thesis | Genetic basis of simple and complex traits with relevance to avian evolution
Supervision | Miguel Carneiro, Ricardo Jorge Lopes, Leif Andersson
Defense Jury | Irby Lovette (Cornell University, USA) and Benoit Nabholz (Montpellier University, France)
- 09/07/2012-18/07/2012 **Summer Institute** in Statistical Genetics, Washington University, Seattle, USA
31/10/2011-30/11/2011 **Field Course in tropical ecology and conservation**, Kirindy Forest, Madagascar, organised by the Tropical Biology Association
Project | Distribution and Size of Antlion Traps in Relation to Prey Availability in the Dry Deciduous Forest of Kirindy, Madagascar.
- 01/10/2011- 26/06/2013 **Biology Master**, Jagiellonian University, Krakow, Poland and Molecular Biology Laboratory in Institute of Nature Conservation, Polish Academy of Sciences
Thesis | Heterozygosity-fitness correlations in sedge warbler *Acrocephalus schoenobaenus* (Linnaeus 1758).
- 30/06/2010-21/07/2010 **Tropical Ecology- Field Course**, Caracas, Venezuela
Project | Basic soil respiration in the mountain cloud forest, Henri Pittier National Park, Venezuela.
- 1/10/2008- 15/07/2011 **Biology Bachelor**, Jagiellonian University, Krakow, Poland
Thesis | Echolocation: evolutionary, physiological and ecological aspects; comparison of bats, cetaceans and birds.

Publication record

(# first author paper, * co-first authors)

Publications post PhD

1. Auer, S., Haelterman, N., Weissgerber, T., Erlich, J.C., Susilaradeya, D., Julkowska, M., **Gazda, M.A.**, Schwessinger, B. and Jadavji, N.M. (2021). A community-led initiative for training in reproducible research. *Elife*, e64719.

2. Jambor H, Antonietti A, Alicea B, Audisio TL, Auer S, Bhardwaj V, Burgess SJ, Ferling I, **Gazda MA**, Hoepfner LH, Ilangovan V. et al. (2021) Creating clear and informative image-based figures for scientific publications. *PLoS biology* 19(3):e3001161.

#3. Andrade P*, **Gazda MA***, Araújo PM, Afonso S, Rasmussen JA, Marques CI, Lopes RJ, Gilbert MT, Carneiro M. (2021) Molecular parallelisms between pigmentation in the avian iris and the integument of ectothermic vertebrates. *PLoS genetics* 17(2):e1009404.

Preprints

4. Kent, B.A., Holman, C., Amoako, E., Antonietti, A., Azam, J.M., Ballhausen, H., Bediako, Y., Belasen, A.M., Carneiro, C.F.D., Chen, Y.C. and Compeer, E., **et al.** (2021). Empowering Early Career Researchers to Improve Science. OSF

#5. Freitas S*, **Gazda MA***, Rebelo M*, Muñoz-Pajares AJ, Vila-Viçosa CM, Muñoz-Mérida A, Gonçalves LM, Azevedo-Silva D, Afonso S, Castro I, Castro PH. et al. (2021) Evidence of post-domestication hybridization and adaptive introgression in Western European grapevine varieties. *bioRxiv*.

Publications included in my PhD

#6. **Gazda MA***, Araújo PM*, Lopes RJ*, Toomey MB, Andrade P, Afonso S, Marques C, Nunes L, Pereira P, Trigo S, Hill GE, Corbo JC, Carneiro M (2020) A Genetic Mechanism for Sexual Dichromatism in Birds. *Science* 368(6496), 1270-1274.

#7. **Gazda MA***, Toomey MB*, Araujo PM, Lopes RJ, Afonso S, Myeres CA, Serres K, Kiser PD, Hill GE, Corbo JC, Carneiro M. (2020) Genetic Basis Of De Novo Appearance Of Carotenoid Ornamentation In Bare-Parts Of Canaries *Molecular Biology and Evolution* 37 (5), 1317-1328.

#8. **Gazda MA**, Andrade P, Afonso S, Dilyte J, Archer JP, Lopes RJ, Faria R, Carneiro M. 2018: Signatures of selection on standing genetic variation underlie athletic and navigational performance in racing pigeons. *Molecular Biology and Evolution* 35(5),1176-1189.

Runner up for the MBE Best Graduate Student Paper Award, 2018.

9. Toomey MB, Lopes RJ, Araujo PM, Johnson JD, **Gazda MA**, Afonso S, Mota PG, Koch RE, Hill GE, Corbo JC, Carneiro M. 2017: High-density lipoprotein receptor SCARB1 is required for carotenoid coloration in birds. *Proceedings of the National Academy of Sciences of the United States of America*, 114(20): 5219-5224.

Other publications:

10. Toomey, M.B., Marques, C., Andrade, P., Araújo, P.M., Sabatino, S., **Gazda, M.A.**, Afonso, S., Lopes, R.J., Corbo, J.C., and Carneiro, M. (2018) “A non-coding region near Follistatin controls head color polymorphisms in Gouldian finch.” *Proc R Soc Lond B Biol Sci.*, 285(1888):20181788.

11. Bojarska K, Kuehn R, **Gazda MA**, Sato NJ, Okahisa Y, Tanaka KD, et al. (2018) Mating system and extra-pair paternity in the Fan-tailed Gerygone *Gerygone flavolateralis* in relation to parasitism by the Shining Bronze-cuckoo *Chalcites lucidus*. *PLoS ONE* 13(3): e0194059..

#12. **Gazda, M. A.**, Kuehn, R., Sato, N. J., Tanaka, D. T., Okahisa, Y., Ueda, K., Gula, R. & Theuerkauf, J. 2015: Establishment of microsatellite markers to assess the mating system of the fan-tailed gerygone (*Gerygone flavolateralis*) for studying cuckoo–host arms race. — *Ann. Zool. Fennici* 52(5-6):280-284.

Conference presentations

3/07/2021-8/07/2021 **SMBE, Virtual poster** “Molecular parallelisms between pigmentation in the avian iris and the integument of ectothermic vertebrates”

21/07/2021-25/07/2021	Virtual Evolution 2021, talk “A genetic mechanism for sexual dichromatism in birds”
11/05/2021-15/05/2021	The Biology of Genomes, virtual. Poster “Molecular parallelisms between pigmentation in the avian iris and the integument of ectothermic vertebrates”
28/06/2020-2/07/2020	SMBE, Quebec, Canada. Fitch Award Nominee talk: “A genetic mechanism for sexual dichromatism in birds” - cancelled due to COVID-19 outbreak, symposium hosted online.
22/04/2020.-26/04/2020	TAGC20, Washington DC, USA. Poster and poster preview: “Genetic basis of de novo appearance of canary bare part” - cancelled due to COVID-19 outbreak and transformed to a virtual conference.
19/08/2019-24/08/2019	ESEB, Turku, Finland. Talk “The genomic and transcriptomic basis of carotenoid-based sexual dichromatism in Finches”.
19/08/2018-22/08/2018	II Joint Congress on Evolutionary Biology, Montpellier, France. Poster: “The genomic basis of athletic performance and navigation in racing pigeons”,
8/07/2018-12/07/2018	SMBE, Yokohama, Japan. Poster: “The genomic basis of athletic performance and navigation in racing pigeons”.
20/08/2017-25/08/2017	XVI ESEB, Groningen, the Netherlands. Poster: “Widespread signatures of selection on standing variation for athletic performance and navigation in racing pigeons”.

Research grants and awards over 500 EUR

2021	Seal of Excellence MSCA IF-EF-ST (Marie Skłodowska-Curie actions)
7/08/2019	COST EIC Grant for ESEB conference (1200 EUR).
25/02/2019	EMBO Short Term Fellowship Natural History Museum of Denmark, Evolutionary Genomics, Copenhagen, Denmark (8666 EUR).
15/03/2018	Young Investigator Travel Award for SMBE conference in Yokohama 2018 (\$1497). The American Society of Naturalists (ASN) Travel grant to attend Evolution meeting in Montpellier 2018 (\$500)
2015-2019	The Foundation for Science and Technology (FCT) scholarship for PhD (4 years stipend including travel funds).
07/2012	Washington University Training grant , Summer Institute of Statistical Genetics; (\$1200).
07/2012	Jagiellonian University Travel grant for participation in Summer Institute of Statistical Genetics (PLN 2000 ≈ EUR 500).
2011-2013	Polish Foundation for Science scholarship for master students (21000 PLN ≈ 5250 EUR).
07/2011	British Ecological Society scholarship for participation in Tropical Biology Association Field Course in Madagascar (GBP 400).

Scientific community involvement

1/07/2021-present	Associate editor in Preprint Team for Proceedings of Royal Society B
25/11/2020- present	Dryad Scientific Advisory Committee
16/03/2021	Panelist at the #Dros21 Conference Success Tips and Welcome from the Early Career Leadership Program
2/10/2020- present	Polonium Foundation Science Team Member
7/05/2020	Panelist at the Communication and Outreach Workshop , The Allied Genetics Conference (TAGC), Genetics Society of America.
2020 & 2021	Undergraduate Travel Awards committee , The Allied Genetics Conference (TAGC), Genetics Society of America.
20/01/2020- present	Early Career Scientist Community and Membership Engagement Committee co-chair , Genetics Society of America
20/01/2020- present	Early Career Scientist Steering Subcommittee , Genetics Society of America.
25/07/2019- present	Proceedings B Preprint Editorial Team , sections: Genetics and Genomics.

16/04/2019-02/06/2020 **eLIFE Ambassador**
 26/03/2019-present **Associate editor and mentor** for the *Journal of Emerging Investigators (JEI)*.
 18/01/2019- 20/01/2020 **Early Career Scientist Career Development Subcommittee Member**, Genetics Society of America (GSA).
 13/12/2018-present **Books Reviewer** for *Evolution: Education and Outreach*.
 01/11/2018-28/01/2021 **GENETICS Peer Review Training Program**: reviewer for *Genetics*.
Reviewer for: *Genome Biology and Evolution, Molecular Ecology Resources, Heredity, eLife, Genetics..*
 Member of scientific societies: ESEB, ASN, SSE, SMOE, GSA.

Career Development

23/02/2021-4/03/2021 Academic Laboratory Management & Leadership Symposium by Torrey Pines

Student supervision

9/10/2018-9/01/2019 Markella Moraitou, Erasmus Exchange student – Project: “The genomics of canary birds”.
 01/10/2017-12/07/2019 Beatriz Lacerda, Master student, co-supervision with Miguel Carneiro – Project: “Genetic basis of feather structure variation in canary birds”.

Invited talks

2/02/2021 ISYEB (Institut de Systématique, Évolution, Biodiversité) Seminar Genetic basis of carotenoid coloration in birds invited by Martine Boccara
 25/11/2020 Seminars on Evolution, Ecology and Behaviour, Poznan, Poland (virtual)
 “Genetic basis of carotenoid coloration in birds” invited by Mateusz Konczal
 9/01/2020 Max Planck Institute of Molecular Cell Biology and Genetics & Max Planck Institute for the Physics of Complex Systems, Dresden, Germany “Genetic basis of simple and complex traits with high importance for avian evolution.”, invited by Michael Hiller
 13/04/2019 Svalov, Sweden “How the work and relations in international groups are influenced by gender” (Plus Gender workshop invited by ProQvi)

Diversity Equity and Inclusion

24/03/2021-5/05/2021 Diversity, Equity and Inclusion in the Workplace Certificate, Muma College of Business, University of South Florida, USA
 22/02/2021-30/03/2021 Black History Wiki Scholars Course, sponsored by GSA, contributed Wikipedia entry for Russell A. DeBose-Boyd (currently under review)

Outreach activities

General public

30/04/2020 Opinion paper about plastic waste in the labs:
 Krause M, Gautam K, **Gazda MA**, Niraula A, Seize the lab waste day, Opinion, Chemistry World 2020.
 3/07/2019 **Podcast about my PhD in PhDrinking.**
 24/05/2018 **Pint of Science** - Seminar addressed to the general public about artificial selection and the genes involved in the coloration of canary birds (in Portuguese, Porto, Portugal).

High-school students

19/10/2018 Mentor for Charlottesville High School Poster Symposium (in English, Charlottesville, USA).
 2/05/2018 Seminar focused on biodiversity and sustainable lifestyle (in Portuguese, Porto, Portugal).
 26/05/2017 Seminar at High School focused on my research experience and advice on career planning and development (in English, Porto, Portugal).

High-school student and their parents

6/06/2018 Invited seminar focused on plastics in Escola Secundária João Gonçalves Zarco (in Portuguese, Porto, Portugal).

Prisoners

24/05/2018 Seminar for the International day of Biodiversity (in Portuguese, Porto, Portugal).

Kids in kindergarten

31/10/2018-30/06/2019 "Discovery of biodiversity" - One year project towards kids 3-5 years old from the "Jardim de Infância de Vairão" (in Portuguese, Vairao, Portugal).

Online programs, platforms

10/07/2019-5/06/2020 Volunteer as a scientist in the program "**Letters to a Pre-Scientist**".

15/03/2019-present Volunteer in the program "**Social Scientist**".

14/03/2019-present Volunteer in the program "**Skype a scientist**".

11/02/2018 **#ChooseScience:** In the scope of the International Day of Women and Girls in Science, I gave an inspirational talk for women in science, a part of an international social media campaign across the world.