

IVAN MIJAIL DE LA CRUZ ARGUELLO

Nationality Mexican

03-August-1989 (36 years)

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RESEARCH INTERESTS

I am a biologist specializing in eco-evo multi-omics' sciences. I am interested in the genetic and eco-evo basis of how plants cope with biotic and abiotic factors, including the evolution of plant-insect interactions, as well as the effects of changing environments on plant fitness at both multi-omics and phenotypic levels. My research combines the integration and synthesis from holistic experimental approaches in both controlled and natural environments with insights from the natural history of populations. By integrating tools from the "Omics" sciences, classic quantitative genetics, bioinformatics (including machine learning and AI), chemical ecology, and evolutionary ecology, I aim to uncover the fundamental mechanisms driving plant adaptation in a rapidly changing world, with the goal of informing nature-based solutions.

WORK/OVERSEA RESEARCH EXPERIENCE

07/06/2024 – Present
(Initial contract for 2 years)

Postdoctoral Employment | Department of Ecology and Genetics, Plant Ecology and Evolution division, Uppsala University, Sweden. Group: Prof. Jon Agren.

Project: Long term ecological genomics of *Arabidopsis thaliana* under changing environments.

07/06/2021 – 06/06/2024
(3 years)

Postdoctoral Employment | Department of Plant Protection Biology, Swedish University of Agricultural Sciences, Sweden. Group: Prof. Johan A. Stenberg

Project: Adapting plant genetic diversity to climate change along a continental latitudinal gradient.

07/08/2020 – 31/05/2021
(8 months)

Postdoctoral Employment | Escuela Nacional de Estudios Superiores (ENES) Campus Morelia, National Autonomous University of Mexico (UNAM), Mexico. Group: Prof. Ken Oyama.

Project: Population genetics of *Quercus* spp in Mexico.

01/01/2020 - 08/06/2020
(6 months)

Visiting Scientist | Ecological Genetics Research Unit, University of Helsinki, Finland.

Project: Genomics of *Datura stramonium*. Group: Prof. Juha Merila.

26/03/2018 - 30/06/2018
(3 months)

Visiting Scientist | Department of Molecular Ecology, Max Planck Institute for Chemical Ecology, Germany.

Project: Chemical ecology of Solanaceae species. Group: Prof. Ian T. Baldwin.

3/03/2015 - 30/12/2015
(9 months)

Research Assistant | Ecological Economy Group, Department of Economy Production, UAM, Mexico.

Project: Ecology and sustainability, a perspective from ecological economics. Group: Prof. David Barkin Rappaport.

EDUCATION

October 2020

PhD in Philosophy (*Summa Cum Laude*) | Department of Evolutionary Ecology, Institute of Ecology, National Autonomous University of Mexico (UNAM), Mexico

Thesis: Adaptive evolution of resistance against herbivores in Datura stramonium

Group: Dr. Juan Núñez Fárfan.

March 2015

M.Sc. in Biology (*Summa Cum Laude*) | Department of Biology, Metropolitan Autonomous University (UAM), Mexico

Thesis: Microdistribution and microhabitat selection of small mammals in a forest of Central Mexico

Group: Dr. Alondra Castro Campillo.

July 2011

B.S. in Biology | Department of the Human and its Environment, Metropolitan Autonomous University (UAM), Mexico.

AWARDS/FELLOWSHIPS

2025	Swedish Phytogeographical Society Full grant to cover all expenses including registration fees to attend the European Evolutionary Biology Conference, Barcelona, Spain.
2024	GSA Journals Peer Review Training Program Granted as delegate and main peer-reviewer from 2025-present. Genetics Society of America, USA.
2024	Science & SciLifeLab Publishing workshop Full grant to attend the workshop Lead by Science (AAAS) and SciLifeLab to be granted as delegated in the peer-review program. Stockholm, Sweden.
2023	Martha and Fredrik Nilsson's memorial fund, SLU, Sweden Grant to cover all expenses including registration fees to attend the Evolution 2023 meeting of the Society for Study of Evolution, Albuquerque, New Mexico, USA.
2022	New Phytologist Next Generation Scientists Program Granted delegate and principal selected talk to attend the meeting in Tartu, Estonia by the New Phytologist foundation.
2022	American Society of Naturalist Graduate Council. Virtual participation award for postdocs Free attendance to Evolution meeting 2022, Society for Study of Evolution, and free Membership for the Society 2022.
2021	Free registration to the Society for Experimental Botany annual Conference 2021 Attendee Category Low- and Middle-Income Countries. Virtual.
2021	Global Participation Program Society for Study of Evolution Free registration for my participation in the Evolution meeting 2021 of the Society for Study of Evolution.
2020	Summa Cum Laude – PhD highest honors for my PhD studies at the Institute of Ecology, UNAM, Mexico.
2020	Genetics Society of America Presidential Membership award Promising early career scientists in genetics and evolution. Genetics Society of America, USA.
2015	University Merit Medal (Summa Cum Laude) – MSc highest honors for my MSc studies at UAM, Mexico.
2020	Encouragement for timely graduation stipend Stipend to have completed my PhD studies on time. UNAM, Mexico.
2016 - 2020	Graduate Research Fellowship (PhD studies, fellowship for 4 years) Secretariat of Science, Humanities, Technology and Innovation (SECIHTI), Mexico.
2012 - 2014	Graduate Research Fellowship (MSc studies, fellowship for 2 years) Secretariat of Science, Humanities, Technology and Innovation (SECIHTI), Mexico.
2019 - 2020	Finnish National Agency for Education (fellowship for nine months; 3 in Mexico and 6 in Finland) Visiting Scientist Fellowship to complete my PhD research in cooperation with international researchers, University of Helsinki, Finland.
2018	Max Planck Society Fellowship (fellowship for three months) Visiting Scientist Fellowship for training in chemical and molecular ecology during my PhD. Department of Molecular Ecology, Max Planck Institute for Chemical Ecology, Germany
2018	Postgraduate Studies Support Program Fellowship (UNAM) Fellowship for three months for the research stay at the Department of Molecular Ecology, Max Planck Institute for Chemical Ecology, Germany.
2020	Tree of Life Award - <i>Datura stramonium</i> Dovetail Genomics. Award of 10,000 USD to sequence the genome of <i>D. stramonium</i> .
2019	Postgraduate Studies Support Program Fellowship (UNAM) Fellowship to attend a workshop, University of Copenhagen, Denmark.

2017	Postgraduate Studies Support Program Fellowship (UNAM) Fellowship to attend the conference of the Mexican Scientific Society of Ecology in 2017, Mexico.
2016	Postgraduate Studies Support Program Fellowship (UNAM) Fellowship for field work, Teotihuacán, Mexico.
2015	PhD acceptance for the full program (declined) at the Universidad de Chile.

MANUSCRIPTS UNDER REVIEW

23	Batsleer, F., De Kort, H., De-la-Cruz, I. M. , Diller, C., Hytönen, T., Matheve, H., Muola, A., Osorio, S., Pérez Martín J. E., Posé, D., Stenberg, J. A., Vantieghem, P., Bonte, D., and Vandegehuchte, M. L. (2025). Geographic and bioclimatic distance outperform genomic offset in predicting local adaptation in a perennial plant across Europe. Under revision in <i>Global Change Biology</i>
22	De-la-Cruz, I. M. , Diller, C., Batsleer, F., Bonte, D., Izquierdo, J. L., Hytönen, T., Osorio, S., Posé, D., de la Rosa, A., Vandegehuchte, M. L., Muola, A., and Stenberg, J. A. (2025). Consistent among-genotype evolution toward larger growth but not herbivore resistance across different environments and reduced precipitation in the woodland strawberry. Under revision in <i>Evolution</i>
21	Pérez-Martín, J., Batsleer, F., Vandegehuchte, M.; De-La Cruz, I. M. , Diller, C.; Sánchez-Sevilla, J., Muola, A., Stenberg, J.A., Hytönen, T., Bonte, D., Posé, D., Osorio, S. (2025). Variation in phenotypic plasticity of metabolic and performance traits along a latitudinal gradient in woodland strawberry. Under revision in <i>Journal of Ecology</i>
20	Diller, C., De-la-Cruz, I. M. , Hytönen, T., Egan, P., and Stenberg, J. A. (2025). To self or to clone? Southern European wild woodland strawberry genotypes self-fertilize, whereas eastern European genotypes clone in a common garden experiment. Under revision in <i>American Journal of Botany</i>
19	Ochoa-Zavala, M., Oyama, K., Mar-Silva, F. A., De-la-Cruz, I. M. , López-Barrera, G., Llanderal-Mendoza, J., Núñez-Farfán, J., Chávez-Santoscoy, R. A., Hernández-Pérez, J., Hinojosa-Alvarez, S., Magallón-Gayon, E., Santana-Castillo, J. E. (2025). Whole-genome data reveal low genetic diversity despite high gene flow in the associate mangrove tree <i>Conocarpus erectus</i> (Combretaceae). Under revision in <i>Botanical Journal of the Linnean Society</i>

PEER REVIEWED PUBLISHED MANUSCRIPTS

	Full text can be found in https://www.researchgate.net/profile/Ivan_De_La_Cruz_Arguello
18	De-la-Cruz, I. M. , Batsleer, F., Bonte, D., Diller, C., Izquierdo, J. L., Still, S., Osorio, S., Posé, D., de la Rosa, A., Vandegehuchte, M. L., Muola, A., Hytönen, T., Stenberg, J. A. (2025). Flowering responses of the woodland strawberry to local climate and reduced precipitation along a European latitudinal gradient. <i>Journal of Plant Ecology</i> https://doi.org/10.1093/jpe/rtaf105 . *Corresponding author
17	De-la-Cruz, I. M. , Batsleer, F., Bonte, D., Diller, C., Hytönen, T., Izquierdo, J. L., Osorio, S., Posé, D., de la Rosa, A., Vandegehuchte, M. L., Muola, A., and Stenberg, J. (2025). Genotypic responses to different environments and reduced precipitation reveal signals of local adaptation and phenotypic plasticity in woodland strawberry, <i>Annals of Botany</i> https://doi.org/10.1093/aob/mcaf025 . *Corresponding author
16	Kariño Betancourt, E., Calderón Cortés, N., Tapia López, R., De-la-Cruz, I. M. , Núñez Farfán, J., and Oyama, K. (2024). Comparative transcriptome profiling reveals distinct regulatory responses of secondary defensive metabolism in <i>Datura</i> species (Solanaceae) under plant development and herbivory-mediated stress. <i>Ecology and Evolution</i> https://doi.org/10.1002/ece3.11496
15	Núñez-Farfán, J., Velázquez-Márquez, S., Torres-García, J.R., De-la-Cruz, I. M. , Arroyo, J., Valverde, P.L., Flores-Ortiz, C.M., Hernández-Portilla, L.B., López-Cobos, D.E., and Matías, J.D. (2024). A Trip Back Home: Resistance to Herbivores of Native and Non-Native Plant Populations of <i>Datura stramonium</i> . <i>Plants</i> https://doi.org/10.3390/plants13010131
14	De-la-Cruz, I. M. , Ken Oyama and Juan Núñez-Farfán. (2024). The chromosome-scale genome and the genetic resistance machinery against insect herbivores of the Mexican Tolache, <i>Datura stramonium</i> . <i>G3: Genes, Genomes, Genetics</i> . https://doi.org/10.1093/g3journal/jkad288 . *Corresponding author
13	De-la-Cruz, I. M. , and Juan Núñez-Farfán. (2023). Inter-annual variation in the abundance of specialist herbivores determines plant resistance in <i>Datura stramonium</i> . <i>Ecology and Evolution</i> https://doi.org/10.1002/ece3.10794 *Corresponding author
12	Sánchez-Acevedo, V., González-Rodríguez, A., Torres-Miranda, C. A., Rodríguez-Correa, H., Valencia-Á, S., De-la-Cruz, I. M. , and Ken, O. (2023). Nuclear and chloroplast DNA phylogeography reveals high genetic diversity and postglacial range expansion in <i>Quercus mexicana</i> (Fagaceae). <i>American Journal of Botany</i> https://doi.org/10.1002/ajb2.16251
11	Albarrán-Lara A., Ochoa-Zavala M., Torres-Miranda A., De-La Cruz I. M. , Dávila P., Peñaloza-Ramírez J., Rodríguez-Correa H. and Oyama K. (2023). Long-distance dispersal drives the genetic variation and historical demography of <i>Quercus magnoliifolia</i> and <i>Quercus resinosa</i> (Fagaceae) in the Mexican highlands. <i>Tree genomes & genetics</i> https://doi.org/10.1007/s11295-023-01619-5

10	De-la-Cruz, I. M. , Kariñho-Betancourt, E., Núñez-Farfán, J., and Oyama, K. (2022). Gene family evolution and natural selection signature in <i>Datura</i> spp. (Solanaceae). <i>Frontiers in Ecology and Evolution</i> https://doi.org/10.3389/fevo.2022.916762
9	De-la-Cruz, I. M. , Osorio, S., Batsleer, F., Bonte, D., Diller, C., Hytönen, T., Muola, A., Posé, D., Vandegheuchte, M., and Stenberg, J. (2022). Evolutionary ecology of plant-arthropod interactions in light of the 'omics' sciences: A broad guide. <i>Frontiers in Plant Science</i> https://doi.org/10.3389/fpls.2022.808427 *corresponding author
8	De-la-Cruz, I. M. , Castro-Campillo, A., Salame-Méndez, A. (2021). Habitat heterogeneity facilitates coexistence of two syntopic species of <i>Peromyscus</i> in a temperate forest of Central Mexico. <i>Therya</i> https://doi.org/10.12933/therya-21-1113 *corresponding author
7	Velázquez-Márquez, S., De-la-Cruz, I. M. , Tapia-López, R., Núñez-Farfán, J. (2021). Tropane alkaloids and terpene synthase genes of <i>Datura stramonium</i> (Solanaceae). <i>PeerJ</i> https://doi.org/10.7717/peerj.11466
6	De-la-Cruz, I. M. , Hallab, A., Olivares, U., Tapia-López, R., Velázquez-Márquez, S., Piñero, D., Oyama, K., Usadel, B., and Núñez-Farfán, J. (2021). Genomic signatures of the evolution of defence against its natural enemies in the poisonous and medicinal plant <i>Datura stramonium</i> (Solanaceae). <i>Scientific Reports</i> https://doi.org/10.1038/s41598-020-79194-1 . **Top 100 most read paper in Ecology in the Journal during 2021
5	De-la-Cruz, I. M. , Merilä, J., Valverde, P. L., Flores-Ortiz C. M., and Núñez-Farfán, J. (2020). Genomic and chemical evidence for local adaptation in resistance to different herbivores in <i>Datura stramonium</i> . <i>Evolution</i> https://doi.org/10.1111/evol.14097
4	De-la-Cruz, I. M. , Cruz, L. L., Martínez-García, L., Valverde, P. L., Flores-Ortiz, C. M., Hernández-Portilla, L. B., and Núñez-Farfán, J. (2020). Evolutionary response to herbivory: Population differentiation in microsatellite loci, tropane alkaloids and leaf trichome density in <i>Datura stramonium</i> . <i>Arthropod-Plant Interactions</i> https://doi.org/10.1007/s11829-019-09735-7
3	De-la-Cruz, I. M. , Velázquez-Marquez, S., and Núñez-Farfán J. (2020). What do we know about the genetic basis of plant defensive responses to herbivores? a minireview. In: <i>Evolutionary Ecology of Plant-Herbivore Interaction</i> (Eds. Juan Núñez-Farfán and Pedro Valverde). pp 295-314. Springer Nature. https://doi.org/10.1007/978-3-030-46012-9_16
2	De-la-Cruz, I. M. , Núñez-Farfán, J. (2020). The complete chloroplast genomes of two Mexican plants of the annual herb <i>Datura stramonium</i> (Solanaceae). <i>Mitochondrial DNA Part B</i> https://doi.org/10.1080/23802359.2020.1789516 *corresponding author
1	De-la-Cruz, I. M. , Castro-Campillo, A., Zavala-Hurtado, A., Salame-Méndez, A., and Ramírez-Pulido, J. (2019). Differentiation pattern in the use of space by males and females of two species of small mammals (<i>Peromyscus difficilis</i> and <i>P. melanotis</i>) in a temperate forest. <i>Therya</i> http://doi.org/10.12933/therya-19-668 *corresponding author

DIPLOMAS, COURSES, WORKSHOPS (LAST 13 YEARS)

- Diploma:** Multivariate statistical analysis, UAM
- Diploma:** Conservation and ecology of species in risk of extinction, UAM
- Diploma:** Introduction to GIS theory and remote Perception with emphasis on open source software, UAM
- Diploma:** Desertification and sustainable agriculture in fragile or degraded agroecosystems
- Course:** Statistical analysis applied to the distribution patterns of species, UAM
- Course:** Use of space and habitat selection models UAM
- Course:** Ecological and evolutionary theory (modules I, II, III), UAM
- Course:** Mathematical models in biology, UAM
- Course:** Biostatistical analyses, UAM
- Course:** Regression and multivariate analyses, UAM
- Course:** Quantitative and ecological genetics, UNAM
- Course:** Genomic studies and its general applications, UNAM
- Course:** Adaptive molecular evolution, UNAM
- Course:** Selected topics of plant physiology: Anatomy, Nutrition, Photosynthesis and Transport, UNAM
- Course:** Introduction to bioinformatics using bacterial genomics, UNAM
- Course:** Population genetics, UNAM
- Course:** Ecological genomics, UNAM
- Course:** NOVA Course – Integrated Pest – Pollinator Management, Swedish University of Agricultural Sciences, Alnarp
- Workshop:** Bioinformatic and analysis of genomic data, UNAM
- Workshop:** Introduction to the management and data analysis of massive DNA sequencing, UNAM
- Workshop:** Introduction to Liquid Chromatography/Time-of-Flight/Mass Spectra (HPLC-TOF-MS), UNAM
- Workshop:** Assembling and annotation of genomes, UNAM
- Workshop:** Analysis of next generation sequencing data with Galaxy (RNA-seq and ChIP-seq), UNAM
- Workshop:** JMP Applied to Multivariate statistical analysis, UAM
- Workshop:** Practical workshop on large-scale genomic data analyses: GWAS in structured populations, The National Laboratory of Genomics for Biodiversity (LANGEBIO), Mexico

- Workshop:** Next generation sequencing and population genomics, University of Copenhagen, Denmark
- Workshop:** Unix and R applied to bioinformatics, UNAM
- Workshop:** RepeatExplorer; discovering repeats in NGS data. Virtual
- Workshop:** Entomovectoring, Swedish University of Agricultural Sciences, Alnarp
- Workshop:** Swedish Bioinformatics Workshop 2024
- Workshop:** Science & SciLifeLab Publishing workshop

RESEARCH GRANTS

- **The Swedish Research Council (VR). Sweden. Priming for Survival: Transgenerational effects of increased temperature and herbivore outbreaks on plant performance.** Sweden. Principal investigator and coordinator. Applied.
- **The Swedish Research Council (VR). Sweden. Ecology and evolution of plant adaptation.** Participant and leader of the genomics work package from June 2024-Present. Coordinator: Jon Ågren.
- **BioDiversa - European Research Council. PlantCline: Adapting plant genetic diversity to climate change along a continental latitudinal gradient.** BioDiversa - European Research Council. Participant and leader of a project work package. Coordinator: Johan A. Stenberg. June 2021-June 2024.
- **Dovetail Genomics. Tree of Life Award - *Datura stramonium*.** Award of 10,000 USD to improve and sequence the genome of *D. stramonium*. Main researcher and applicant.
- **CONACyT, Mexico (#1527). Genomics of plant defence.** Co-author and main participant. Coordinator: Juan Núñez Farfán.
- **Support Program for Research Projects and Technological Innovation (PAPIIT), UNAM, Mexico. Genomic analysis of the adaptation of resistance against herbivores in *Datura stramonium* (#IG200717).** Co-author and main participant. Coordinator: Juan Núñez Farfán.

CONFERENCES/PRESENTATIONS

2025	Flowering responses of the woodland strawberry to local climate and reduced precipitation along a European latitudinal gradient. <i>European Evolutionary Biology conference</i> . Barcelona, Spain. Speaker .
2025	Genotypic responses to different environments and reduced precipitation reveal signals of local adaptation and phenotypic plasticity in woodland strawberry. <i>European Evolutionary Biology conference</i> . Barcelona, Spain. Speaker .
2024	BSA Virtual Symposium on Climate Change. <i>Botanical Society of America</i> . Virtual. Participant .
2024	Phenotypic and metabolomic responses of <i>Fragaria vesca</i> to varied environmental conditions: insights from the PlantCline project. <i>Mendel Early Career Symposium (3rd Edition)</i> . Speaker .
2023	Unraveling the complexity of climate change effects on plants: Fitness responses to herbivory and drought in the woodland strawberry (<i>Fragaria vesca</i>) across Europe. <i>Evolution 2023. Society for the study of Evolution</i> . New Mexico, USA. Speaker
2022	Cómo defenderse de tus enemigos cuándo eres una planta? <i>Mexican Scientific Society for Ecology</i> . Regular talks for high school students. Virtual. Speaker .
2022	Genomic basis of the evolution of resistance against its natural enemies in the poisonous and medicinal plant <i>Datura stramonium</i> (Solanaceae). <i>New Phytologist Next Generation Scientists meeting</i> , Tartu, Estonia. Speaker
2021	PlantCline Biodiversa Project. <i>International Workshop on Entomovectoring</i> , organized by Paul Egan and Heikki Hokkanen, SLU. Speaker
2021	Ecological genomics of <i>Datura stramonium</i> <i>Seminar Biodiversity Unit, University of Turku</i> , Finland, Speaker .
2021	Chemical ecology of <i>Datura stramonium</i> <i>Seminar Department of Plant Protection Biology</i> , Swedish University of Agricultural Sciences, Sweden. Speaker

2021	Genomic and chemical evidence for local adaptation in resistance to different herbivores in <i>Datura stramonium</i> <i>Virtual Evolution 2021. Society for the study of Evolution.</i> Speaker
2019	Adaptive evolution of resistance against herbivores in <i>Datura stramonium</i> <i>VII Mexican National Conference of Ecology</i> , Queretaro, Mexico. Speaker
2019	Natural history and infestation dynamic of three herbivores specialist of <i>Datura stramonium</i> <i>VII Mexican National Conference of Ecology</i> , Queretaro, Mexico. Speaker
2018	Genome assembly and annotation of <i>Datura stramonium</i> (Solanaceae) <i>Student Seminar, Institute of Ecology</i> , UNAM, México. Speaker
2017	Differentiation in chemical and physical defense in two native populations of <i>Datura stramonium</i> <i>VI Mexican National Conference of Ecology</i> . Leon Guanajuato, Mexico. Speaker
2017	Habitat heterogeneity promotes coexistence in the use of space of two <i>Peromyscus</i> (Cricetidae) in a template forest <i>VI Mexican National Conference of Ecology</i> . Leon Guanajuato, Mexico. Poster
2016	Selection and use of the microhabitat by two <i>Peromyscus</i> in a conifer forest <i>XIII Mexican National Conference of Mastozoology</i> . San Cristobal de las Casas, Chiapas, Mexico. Poster
2016	Ecological microdistribution in two <i>Peromyscus</i> of a temperate forest in central Mexico <i>XIII Mexican National Conference of Mastozoology</i> . San Cristobal de las Casas, Chiapas, Mexico. Speaker
2014	Differential seasonal use of individual reproductive space of <i>Peromyscus difficilis felipensis</i> and <i>P. melanotis</i> (Rodentia: Cricetidae) <i>63rd Annual Meeting of Southwestern Association of Naturalist</i> . Mexico City, Mexico. Poster
2013	Microhabitat quality classification for small mammals in a temperate forest of conifers <i>XII Mexican National Conference of Mastozoology</i> . Puebla, Mexico. Poster

TEACHING

01/06/2025 – 31/01/2026	Comparative genomics , <i>University of Applied Sciences Bingen</i> , Bingen, Germany. Course leader and main teacher.
1/06/2023-31/01/2024	Integrated Pest Management , <i>Plant Protection Biology</i> , SLU (graduate students). Main teacher.
15/01/2017 – 31/07/2017	Quantitative and Ecological genetics , <i>UNAM</i> (bachelor and graduate students). Teaching assistant.
15/01/2019 – 31/07/2019	Sustainability , <i>UAM</i> (undergrad students). Teaching assistant.
01/08/2015 – 17/12/2015	Biology, Chemistry , <i>Instituto Especializado en Estudios Intensivos S.C. (I.D.E.A.)</i> , Mexico City (high school). Main teacher.
01/02/2015 – 31/07/2015	

MENTORSHIP

2025	Wieger Joustra , <i>Uppsala University</i> . Master thesis. Differential amounts of heritable variation for trichome production within several Swedish populations of <i>A. thaliana</i> . Co-Supervisor with Jon Ågren.
2022-2023	Shah Ahmad Ansari , <i>University of Padova</i> . Master thesis. The role of α -farnesene in strawberries in insect herbivory and biological control. Co-Supervisor with Johan A. Sterberg.
	The Baltic Sea University Programme, Master thesis supervision program:
	<ul style="list-style-type: none"> ▪ Anna Gorshkova, <i>University of Greifswald</i>. Assessing the impact of wind farms in the baltic sea on migratory and resident bird populations. ▪ Mariia Marchenko, <i>Odesa I. I. Mechnikov National University</i>. Assessing the feasibility of using several <i>Pseudomonas</i> genus representatives in microbial fuel cell design. ▪ Dobromil Skrzypniak, <i>University of Gdańsk</i>. Epifauna of submerged marine objects in seasonal perspective.
2025	Opponent of Jonathan Gyllingberg, <i>Uppsala University</i> . Sex ratio bias in <i>Salix repens</i> .

CURRENT/PAST MEMBERSHIPS

Society for the Study of Evolution (SSE)
Society for Molecular Biology and Evolution (SMBE)
Genetics Society of America (GSA)
Iberoamerican Society of Bioinformatics (SolBio)
Sociedad Científica Mexicana de Ecología (SCME)

ACTING AS REVIEWER

Mitochondrial DNA Part B: Resources (3), Journal of Plant Research (4), Ecology and Evolution (3), Plant Ecology (1), PCI Ecology (1), Evolutionary Bioinformatics (1), The Crop Journal (1), Acta Oecologica (1), Frontiers in Plant Science (1), Molecular Ecology (2), BMC genomics (1), Genetics (1), Journal of Plant Ecology (1), Science (1), Ecology (1).

WEBPAGES

ResearchGate https://www.researchgate.net/profile/Ivan_De_La_Cruz_Arguello
Google Scholar <https://scholar.google.com/citations?user=s0FSmLEAAAJ&hl=es>
ORCID <https://orcid.org/0000-0002-6794-6138>

SKILLS

Bioinformatics/Stats, Unix/Bash command lines, Mass spectrometry, Insect/Plant care, Field work, Lab/wet work, Project administration and leadership, Mentorship, Fair peer-review.

- Organizer of academic seminars for the years 2023 and 2024 at Department of Plant Protection Biology, SLU, Sweden.
 - Organizer of the program division day (Plant Ecology and Evolution) for the years 2024 and 2025, Uppsala University.
 - Newsletter coordinator. SLU Posdoc Association Sweden.
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ACADEMIC CONTACTSPhD supervisor

Dr. Juan Núñez Farfán | Department of Evolutionary Ecology | Institute of Ecology | National Autonomous University of Mexico (UNAM), farfan@unam.mx

Postdoc supervisor

Dr. Johan A. Stenberg | Department of Plant Protection Biology | Swedish University of Agricultural Sciences (SLU) Johan.Stenberg@slu.se

Postdoc supervisor

Dr. Jon Ågren | Evolutionary Biology Center | Department of Ecology and Genetics | Uppsala University (UU) Jon.Agren@ebc.uu.se

Postdoc supervisor

Dr. Anne Muola | Division of Biotechnology and Plant Health, Invertebrate Pests and Weeds in Forestry, Agriculture and Horticulture | The Norwegian Institute of Bioeconomy Research (NIBIO) anne.muola@nibio.no

Postdoc supervisor

Dr. Ken Oyama Nakawaga | Escuela Nacional de Estudios Superiores (ENES), Campus Morelia | National Autonomous University of Mexico (UNAM) kenoyama@enesmorelia.unam.mx