Curriculum Vitae
Dr. Marina Igorova Reyne (Genova)

CONTACT DETAILS

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EDUCATION

2016 - 2021	**Ph.D.** Ecosystem diversity and sustainability Queen's University Belfast, UK
2014	**Postgraduate Diploma** in Endangered Species Recovery Durrell Institute of Conservation and Ecology (DICE) University of Kent, UK
2009- 2011	**M.Sc.** Forest and Nature Conservation, specialization Ecology Wageningen University, the Netherlands
2005 – 2009	**B.Sc**. Biology Sofia University St. Kliment Ohridski, Bulgaria

WORK EXPERIENCE

Feb. 2026 - current	**Scientist** Department of wildlife diseases, Leibniz Institute for Zoo and Wildlife Research, Berlin, Germany (1) Pandemic literacy and viral zoonotic spillover risk at the frontline of disease emergence in Southeast Asia, PANDASIA (2) Socio-ecological impacts and mechanisms of pathogen emergence in changing landscapes, SIMPEL
2021-2026	**Postdoctoral researcher** Understanding Health and Disease School of Biological Sciences, Queen's University Belfast, UK (1) The spatio-temporal dynamics of gastrointestinal nematode distribution and infection risk under global change. (2) Emerging zoonoses in wildlife: Understanding the ecology, transmission and impacts of *Brucella* and *Erysipelothrix* for conservation and food security in the changing Arctic (ArcticEID) (3) Environmental surveillance of microbiome and resistome dynamics in high-antibiotic-use clinical settings, part of the Pathogen Surveillance in Agriculture, Food and Environment (PATH-SAFE) Programme. (4) Population-level genomic surveillance of public health-relevant viruses via wastewater, part of the Northern Ireland National Wastewater Surveillance Programme.

March – Dec. 2020	**Molecular Biologist** Emergency response to Covid19 , Containment Level 2 laboratory, Randox, UK
2015	**Field assistant** Coral reef monitoring and restoration, Reef Check, Dominican Republic
2014	**Research assistant** Mauritius Marine Conservation Society, Mauritius
2012 - 2013	**Scientific consultant and Project coordinator** SalvaNATURA and Asociacion Territorios Vivos, El Salvador
2006	**Head of life collection of exotic animals** National Museum of Natural History part of Bulgarian Academy of Science, Bulgaria

CONTRIBUTION TO THE SCIENTIFIC COMMUNITY (selection)

(1) Associated Editor for the Journal of Applied Ecology, BES (2026 – 2029)
(2) Peer-reviewer for a variety of scientific journals
(3) Second Ph.D. supervisor (2024 – 2028): conservation biology and disease ecology of the Natterjack toad in Ireland.
(4) Assistant Ph.D. supervisor (2024 – 2027): molecular methods to study food webs in the Amazonian forest in Peru.
(5) Teaching B.Sc. and M.Sc. modules: Biodiversity, Molecular biology and microbiology, Plant biology, GIS and Statistics.
(6) Judging panel for Ph.D. student progress for Understanding Health and Disease theme (2025).
(7) Marie Curie network ReCAP workshop on soil microbiome (2024).

PRESENTATIONS AND PUBLIC OUTREACH (selection)

(1) CINUK ArcticEID community meeting 2025: Population genetics of *Erysipelothrix rhusiopathiae* (speaker).
(2) Invited speaker. Genomic surveillance of pathogens and antimicrobial resistance in the environment, Prisma2024 PacBio.
(3) Viral metagenomics from wastewater. ISME 2022 (poster).
(4) Genomic analysis and surveillance of respiratory syncytial virus (RSV) using wastewater-based epidemiology, Applied Microbiology ECS Research Symposium 2023 (poster).
(5) Invited speaker. Natterjack toad conservation in Ireland. Herpetological Working Group Meeting 2019.
(6) Population genetics of the Natterjack toad, Annual meeting 2019 of the British Ecological Society (speaker).
(7) Organized outreach community events for a variety of conservation organizations (eg.National Trust, Botanical Society of Britain and Ireland), radio and TV interviews (eg. Ear to the Ground).

GRANTS AND AWARDS (selection)

(1) National Parks and Wildlife Service Grant. Awarded in collaboration with Dr. Neil Reid to support a PhD project focused on Natterjack toad conservation and disease ecology.

(2) Sir Thomas Dixon Travel Scholarship 2019.

(3) 9th World Congress of Herpetology PhD grant.

(4) Special Research Scholarship 2016 - 2019, Queen's University Belfast.

(5) Fresno Chaffee Zoo Conservation Fund 2013, Conservation of the endangered Geoffroy's spider monkey (*Ateles geoffroyi)* in the fragmented landscape of Bahía de Jiquilisco, El Salvador.(6) Mohamed Bin Zayed Species Conservation Fund 2012, Conservation of the endangered Geoffroy's spider monkey (*Ateles geoffroyi*) in the fragmented landscape of Bahía de Jiquilisco, El Salvador.

(7) Chester Zoo Conservation and Research Funding Support 2012, Monitoring and conservation of the Black-eyed tree frog (*Agalychnis moreletii*) in El Salvador: status assessment and habitat evaluation, El Salvador.

PUBLICATIONS (selection)

Troendle EP, Lee AJ, **Reyne M**, Allen DM, Bridgett SJ, Radulescu CH, Glenn M, Wilkins JP, Rubino F, Nejad BF, McSparron C, Niebel M, Fairley DJ, Creevey CJ, McKinley JM, Skvortsov T, McGrath JW, Bamford CGG, Simpson DA. Combining individual and wastewater whole genome sequencing improves SARS-CoV-2 surveillance. *Water Research*, 284:23953

Lee AJ, Carson S, **Reyne M,** Marshall A, Moody D, Allen DM, Allingham P, Levickas A, Fitzgerald A, Bell SH, Lock J, Coey JD, McSparron C, Nejad BF, Courtney DG, Einarsson GG, McKenna JP, Fairley DJ, Curran T, McKinley JM, Gilpin DF, Lemon K, McGrath JW, Bamford CGG. Wastewater monitoring of human and avian influenza A viruses in Northern Ireland: a genomic surveillance study. *Lancet Microbe*, 5(12): 100933

Reid N, **Reyne M,** O'Neill W, Greer B, He Q, Burdekin O, McGrath JW, Elliott CT. Unprecedented Harmful algal bloom in the UK and Ireland's largest lake associated with gastrointestinal bacteria, microcystins and anabaenopeptins presenting an environmental and public health risk. *Environment International,* 190: 108934.

Reyne M, Allen DM, Levickas A, Allingham P, Lock J, Fitzgerald A, McSparron C, McKinley J, Lee A, Bell SH, Quick J, Houldcroft CJ, Bamford C, Gilpin DF, McGrath JW. Detection of human adenovirus F41 in wastewater and its relationship to clinical cases of acute hepatitis of unknown aetiology. *Science of the Total Environment*, 857: 159579.

Reyne M, Aubry A, Emmerson M, Marnell F, Reid N. Conservation efforts fail to halt the decline of the regionally endangered Natterjack toad (*Epidalea calamita*) in Ireland. *Biological Conservation*, 261: 109228.

Reyne M, McGuiggan H, Nolan M, Marnell F, Aubry A, Emmerson M, Reid N. Artificially created agri-environment scheme ponds do not replicate natural environments despite high aquatic and terrestrial invertebrate richness and abundance. J*ournal of Applied Ecology*, 58(2): 304–315.