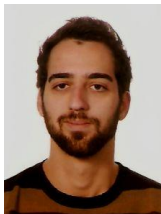


PERSONAL INFORMATION

Ibon Tobes Sesma



📍 Universidad Tecnológica Indoamérica, Machala y Sabanilla, Quito

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🌐 <http://orcid.org/0000-0001-5343-5014c>

Sex Male | Date of birth 25/03/1983 | Nationality Spanish

WORK EXPERIENCE

October 2015 – Present

Professor and Researcher: Universidad Tecnológica Indoamérica, Quito, Ecuador
BIOCAMB - Centro de investigación de la Biodiversidad y el Cambio Climático

Undergraduate Professor in the Engineering on Biodiversity and Climate Change: Conservation Biology, Ethnobiology, Human Ecology, Culture and Environment, Environmental Problems, Sustainable Development, Watershed Management, Environmental Governance

Postgraduate Professor in Biodiversity and Climate Change Masters Degree: Conservation Strategies in Changing Environments

Postgraduate Professor in Biodiversity an Climate Change Masters Degree: Natural and Anthropic Processes and Climate Change

Principal Investigator: Ethnobiology for the Conservation of the Biocultural Diversity and the Governance of Freshwater Ecosystems in Ecuador

Museum Curator: Fish and Invertebrate collections of the Zoology Museum of Universidad Tecnológica Indoamérica

April 2018 – April 2020

Director: Centro de investigación de la Biodiversidad y el Cambio Climático (BioCamb)

October 2016 – Present

Associated Editor: Neotropical Biodiversity

December 2015 – May 2018

Project Manager: International Watershed Partners

- Ecology research for the development of a sustainable use of river ecosystems and resources

September 2010 – Present

Visiting scholar: University of Navarra, Pamplona/Iruñea, Spain

Degree in Environmental Sciences

- **Professor:** Conservation Biology (2020)
- **Visiting scholar:** Conservation Biology (2016-Present), Environmental & Landscapes Program (2018-Present)

Degree in Environmental Biology.

- **Assistant professor:** Zoology Laboratory (2010-2012), Environmental Impact Assessment (2011-2015), Ecology (2012-2015)

Masters in Landscape, Biodiversity and Sustainable Development

- **Visiting scholar:** Urban stream ecology (2012-2015), Socioenvironmental conflicts (2106-2019)

April 2009 - April 2011

Research Internship: University of Navarra, Pamplona/Iruñea, Spain.

- Development of a digital analysis technique for brown trout scales

EDUCATION AND TRAINING

September 2010 - June 2016

PhD on Environmental Biology: University of Navarra, Pamplona/Iruñea, Spain

- Ecological gradients and fish assemblage distribution in mountainous streams: from ecology to conservation; from the Pyrenees to the Andes

September 2009 - August 2010

Masters in Biodiversity, Landscapes and Sustainable Development: University of Navarra, Pamplona/Iruñea, Spain

- Development of a digital analysis technique for brown trout scales

July 2010

UC Berkeley Forestry Field Camp: University of California, Berkeley

- Ecology module

September 2002 - February 2009

Degree in Biology: University of Navarra, Pamplona/Iruñea, Spain

- Major in Environmental Biology

LANGUAGE SKILLS

Mother tongue Spanish

English C1: ESOL Certificate in Advanced English (CAE) – Cambridge University

Basque C1: Euskarazko Gaitasun Agiria (EGA) – Official Language School

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

- 2023** **Ríos-Touma, B., Rosero, P., Morabowen, A., Guayasamin, J. M., Carson, C., Villamarín-Cortez, S., Solano-Ugalde, A., Tobes, I., & Cuesta, F.**
Biodiversity responses to land-use change in the equatorial Andes.
Ecological Indicators, 156, 111100.
- Segarra-Jiménez. M.P., & Tobes, I.**
Upcycling the Banana Industry in Ecuador: A Methodology to Estimate Biowaste and Catalogue of Bioproducts
International Journal on Advanced Science, Engineering and Information Technology, Vol. 13 (2023) No. 5, pages: 1917-1923, DOI:10.18517/ijaseit.13.5.19031
- Tonella, L. H., Ruaro, R., Daga, V. S., Garcia, D. A. Z., Vitorino, O. B., Lobato de Magalhães, T., Tobes, I.,... & Carmassi, G. R.**
NEOTROPICAL FRESHWATER FISHES: A dataset of occurrence and abundance of freshwater fishes in the Neotropics
Ecology, 104 (4), e3713. <https://doi.org/10.1002/ecy.3713>
- 2022** **Miranda, R., Rios-Touma, B., Falconí-López, A., Pino-del-Carpio, A., Gaspar, S., Ortega, H., ... & Tobes, I.**
Evaluating the influence of environmental variables on fish assemblages along Tropical Andes: considerations from ecology to conservation.
Hydrobiologia, 1-17.
- Tobes, I., Carrillo-Moreno, C., Guarderas-Flores, L., Jácome-Negrete, I., & Velázquez-Cárdenas, Y.**
Ethnoichthyology and Ethnotaxonomy of the Kichwa Indigenous People of Arawanu (Arajuno), in the Ecuadorian Amazon.
Frontiers in Ecology and Evolution. 10, <https://doi.org/10.3389/fevo.2022>.
- Miranda, R., Rios-Touma, B., Falconí-López, A., Pino-del-Carpio, A., Gaspar, S., Ortega, H., ... & Tobes, I.**
Evaluating the influence of environmental variables on fish assemblages along Tropical Andes: considerations from ecology to conservation.
Hydrobiologia, 1-17.
- Moncada, G., Torrens, J., Osoez, J., Baquero, E., Escribano, N., Miranda, E., ... & Miranda, R.**
Presence of Invasive Alien Species (IAS) in Impounded Waters of Navarre (Spain) Using Multi-Mesh Gillnets.
Biology and Life Sciences Forum 13 (1), 62.
- 2021** **Arana-Maestre, J., Álvarez-Tolentino, D., Miranda, R., Tobes, I., Araujo-Flores, J., Carrasco-Badajoz, C., & Rayme-Chalco, C.**
Altitudinal distribution of aquatic macroinvertebrates and its relation to environmental variables in an Amazon river system (Perú).
Revista de la Academia Colombiana de Ciencias Exactas, Físicas y Naturales, 45(177), 1097-1112.
- Tobes, I., Ramos-Merchant, A., Araujo-Flores, J., Pino-del-Carpio, A., Ortega, H., & Miranda, R.**
Fish Ecology of the Alto Madre de Dios River Basin (Peru): Notes on Electrofishing Surveys, Elevation, Palm Swamp and Headwater Fishes.
Water, 13(8), 1038.
- Morales-Espín, B., Ortiz, F., Sánchez-Lara, E., Páez-Vacas, M., Muñoz-Lara, K., Bravo-Vera, E., ... & Tobes, I.**
Understanding the relation with nature in the city: biodiversity knowledge and environmental awareness in a periurban area of Quito, Ecuador.
Sustainability, Energy and City (pp. 70-80). Cham: Springer International Publishing.
- Oleas, N. H., Valencia, K., Peña, P., Páez-Vacas, M., Salazar, L., & Tobes, I.**
BioCamb: 10 años contribuyendo al conocimiento de la biodiversidad en el Ecuador.
CienciAmérica, 10(2), 1-6.
- Zapata, D., Oleas, N. H., Páez-Vacas, M., & Tobes, I.**
Water quality assessment of the Cutuchi river basin (Ecuador): A review of technical documents.
Earth and Environmental Science (Vol. 690, No. 1, p. 012058). IOP Publishing.
- Mojica, J. I., Jiménez Prado, P., Martínez-González, C. C., González-Daza, W., Forero-Cano, J. D., Larrarte-Rivera, E., Tobes, I. & Agudelo Zamora, H. D.**
Peces de la cuenca del río Mira: Pacífico colombo-ecuatoriano.
Universidad Nacional de Colombia Facultad de Ciencias. ISBN 978-958-794-345-0
- 2020** **Tobes, I., Falconí-López, A., Valdiviezo-Rivera, J., & Provenzano-Rizzi, F.**
A new species of Microglanis (Siluriformes: Pseudopimelodidae) from the Pacific slope of Ecuador.
Neotropical Ichthyology, 18(2). ISSN 1679-6225
- Oleas, N., Melo-Gonzalez, C. J., Tobes-Sesma, I., Salazar, L., Falconí-López, A., Páez-Vacas, M., Santiago Bonilla & Endara, M. J.**
Impacto de COVID-19 en la investigación de la Biodiversidad en Ecuador.

2018

Miranda R, Tobes I, Gaspar S, Peláez-Rodríguez M

Patterns in the distribution of fish assemblages and their association with habitat variables in the Suaza River on its way through the Cueva de los Guácharos National Park, Colombia
Écoscience, 25:1, 85-95. ISSN: 1195-6860

Benejam L, Tobes I, Brucet S, Miranda R

Size spectra and other size-related variables of river fish communities: systematic changes along the altitudinal gradient on pristine Andean streams
Ecological Indicators 90 (2018) 366–378

2016

Tobes I, Miranda R, Pino-del-Carpio A, Arauj-Flores JM, Ortega H

Length-weight relationships of freshwater fishes of the Alto Madre de Dios River (Manu Biosphere Reserve, Peru)
Journal of Applied Ichthyology doi:10.1111/jai.13172

Tobes I, Miranda R, Gaspar S, Peláez M,

Morphometric relationships of freshwater fishes of the Suaza River (Huila Department, Colombia)
Acta Ichthyologica et Piscatoria 46 (2): 137–140

Tobes I, Gaspar S, Peláez M, Miranda R

Fish assemblages and macroinvertebrates as bioindicators at Andean piedmont streams of the Colombian Amazon
Inland Waters 6(1): 89-104

Tobes I, Gaspar S, Oscoz J, Miranda R

Environmental health diagnosis of the stream ecosystems in the Ordesa-Viñamala Biosphere Reserve: Evaluation of the effectiveness of a protected area.
Journal of Applied Ichthyology 32(1): 229-239

2015

Miranda R, Baquero E, Oscoz J, Larraz M, Vedia I, Tobes I

Fauna acuática de los ríos de Pamplona (Aquatic fauna of the rivers in Pamplona)
Depósito Legal: NA-2224-2014. Ayuntamiento de Pamplona, 92 pp.

2014

Herrero C, Uria-Diez J, Ibáñez R, Miranda R, Oscoz J, Tobes I, Bermejo R, Santamaría JM

Report on National ICP IM (International Cooperative Program on Integrated Monitoring of Air Pollution Effects on Ecosystems) Activities in Spain
Reports of the Finnish Environment Institute 22: 47-50

2013

Miranda R, Martínez-Lage J, Molina J, Oscoz J, Tobes I, Vilches A

Effects of stress controlled loading of a reservoir on downstream fish populations in a Pyrenean river
Environmental Engineering and Management Journal 11(6): 1125-1131

2012

Almeida D, Tobes I, Miranda R, Copp GH

*Cuckoldry features of introduced pumpkinseed (*Lepomis gibbosus*) in contrasting environmental conditions in southern Europe.* Canadian Journal of Zoology 90: 1051-1057

Gaspar S, Tobes I, Miranda R, Leunda PM, Peláez M

Length-weight and length-girth relationships of sixteen freshwater fishes of the Hacha River, in the Amazon Basin (Caquetá, Colombia)
Journal of Applied Ichthyology 28(1): 667-670

2010

Miranda R, Leunda PM, Oscoz J, Vilches A, Tobes I, Madoz J & Martínez-Lage J

Additional records of non-native freshwater fishes for the Ebro River basin (Spain)
Aquatic Invasions 5(3): 291-296

PROJECTS

2016-2020

Freshwater ecology, fish biodiversity, ethnobiology and conservation in Ecuador

Universidad Tecnológica Indoamérica. Main Researcher: Dr. Ibon Tobes

2012

Fish biodiversity in river ecosystems inside the Manu Biosphere Reserve in Peru: implications of knowledge in the conservation and management

Inter-university Cooperation and Research Program between Spain and Latin America. Ministry of Foreign Affairs. Main Researcher: Dr. Rafael Miranda.

2010-2011

Transboundary network for the study and management of the brown trout (*Salmo trutta* L.)

Cooperation activities inside the Pyrenean Working Community framework. Innovation, Business and Employment Department, Government of Navarra. Main Researcher: Dr. Frederic Casals.

2009-2011

Age determination, growth analysis and differentiation of migratory and resident forms of brown trout (*Salmo trutta* L.) in the Bidasoa River Basin (Navarra), using digital image analysis of scales

Technologist training program. Industry and Technology Department, Government of Navarra
Main Researcher: Dr. Rafael Miranda.

CONFERENCES

Oral Presentations

November 2016

Tobes I, Ramos-Merchante A, Miranda R, Pino-del-Carpio A, Araujo-Flores JM, Ortega H

Distribución de peces a lo largo de un gradiente altitudinal en el piedemonte Andino- Amazónico de Perú: ¿Por qué la

elevación no debe ser usada como variable ambiental?

XV Congreso Nacional de Ictiología, V Simposio Latinoamericano de Ictiología
Universidad Autónoma de Aguascalientes, México

June 2016

Tobes I, Payaguaje H, Weiss L, Mulbry R, Payaguaje A, Piaguaje A, Payaguaje D, Lusitande D, Lisitante E, Payaguaje J, Payaguaje JM, Piaguaje L, Yiyokuro L, Yiyocuro M, Piaguaje R, Piaguaje RA, Rios-Touma B
Participatory monitoring in the Ecuadorian Amazon: studying fish to understand environmental health and livelihood implications in indigenous communities
VI Iberian Congress of Ichthyology
Iberian Society of Ichthyology, Murcia, Spain

June 2014

Tobes I, Miranda R, Pino-del-Carpio A, Araujo-Flores JM, Ortega H
River ecosystems and fish biodiversity of the Manu Biosphere Reserve, Perú: implications of knowledge in the conservation and management
V Iberian Congress of Ichthyology: knowledge for conservation
National Museum of Natural History and Science, Lisboa, Portugal

April 2014

Arana-Maestre JO, Miranda R, Tobes I, Pino-del-Carpio A, Araujo-Flores JM
Study of the aquatic invertebrates and water quality evaluation of the Alto Madre de Dios Basin (Perú)
2nd Latin American Meeting on Aquatic Macroinvertebrates - Macrolatinos
Autonomous University of Queretaro, Queretaro, Mexico

July 2012

Tobes I, Gaspar S, Oscoz J, Miranda R
Comparative study of the biological status of two river basins in the Ordesa-Viñamala Biosphere Reserve
IV Iberian Congress of Ichthyology: present situation and future challenges
Aquatic Ecology Institute, University of Girona, Spain

October 2011

Environment & Pyrenees International Conference
School of Sciences, University of Navarra, Spain

Tobes I, Gaspar S, Oscoz J, Miranda R

Preliminary data and analysis of fish fauna and biotic river indices for the management of Ordesa-Villamala Biosphere Reserve

Miranda R, Martínez-Lage J, Molina J, Oscoz J, Tobes I, Vilches A

The effects of Itoiz Reservoir regulation discharge and habitat modifications on fish river populations

Cos A, Oscoz J, Tobes I, Miranda R.

Long-term monitoring of channelization impacts on the Larraun River (Northern Spain)

Moreau J, Miranda R, Oscoz J, Tobes I, Leunda PM

*Growth of brown trout (*Salmo trutta* L.) in the Spanish Pyrenees. A preliminary analysis*

July 2011

Tobes I, Gaspar S, Peláez-Rodríguez M, Miranda R
Synecological analysis of fish communities and their potential use as bioindicators at piedmont streams of the Colombian Andes
The Fisheries Society of the British Isles Annual Symposium. Fish Diversity and Conservation
Bournemouth University, Bournemouth, UK

Posters

June 2016

Tobes I, Miranda R, Morocz C, Morabowen A, Ibarra C, Walls S, Rios-Touma B
Fish diversity in the Chocoma-Tropical Andes of Ecuador: the role of habitat and elevation
VI Iberian Congress of Ichthyology
Iberian Society of Ichthyology, Murcia, Spain

October 2015

Tobes I, Miranda R, Pino-del-Carpio A, Araujo-Flores J, Ortega H
Stream ecology and fish diversity of the Manu Biosphere Reserve
Biodiversity and Conservation of the Tropical Andes and the Amazon Rainforest
Andes Amazon Biodiversity Conservation, Chamber of Commerce, Lima, Peru (poster)

February 2013

Tobes I, Gaspar S, Peláez-Rodríguez M, Miranda R
Study of the ichthyologic biodiversity and river ecosystems of the Cueva de los Guácharos National Park (Colombia)
IV National Conference of Biodiversity and I Iberian Conference of Biodiversity
University of the Basque Country, Bilbao, Spain

July 2010

Tobes I, Miranda R, Leunda PM, Alvarez J
Brown trout growth patterns in the Bidasoa river, northern Iberian Peninsula: how to analyse the potential implication of river hydrothermal alterations?
The Fisheries Society of the British Isles Annual Symposium. Fish and climate change
Queen's University, Belfast, UK

Conference organisation

March 2015

Cinema and Environment Festival - Director
School of Sciences, University of Navarra, Spain

October 2011

Environment & Pyrenees International Conference
School of Sciences, University of Navarra, Spain

November 2009

Freshwater Invasive Species in the Iberian Peninsula Congress
School of Sciences, University of Navarra, Spain

INTERNSHIPS

- August-October 2015 **An analysis of land use impacts on Andean tropical stream ecology and biodiversity**
Universidad Tecnológica Indoamérica. Quito, Ecuador
- June 2012 **Sampling campaign - Freshwater ecosystems of the Manu Biosphere Reserve**
National University of San Marcos, Lima, Peru
- January-April 2011 **Sampling campaign and sample analysis and identification - Freshwater ecosystems of the Cueva de los Guacharos National Park, Cinturón Andino Biosphere Reserve**
University of the Amazon, Florencia, Colombia

HONOURS AND AWARDS

- November 2009 **Finalist on "Urban TV – VII Life and Urban Ecology Television Festival"**
"Bello Desorden" - Scriptwriter and producer
La Casa Encendida, Madrid, Spain