

Pamela M Chiroque-Solano

PERSONAL DETAILS

Address Laboratório de Avaliação e
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Ilha do Fundão - Cidade Universitária
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ACADEMIC QUALIFICATIONS

Post-Doctoral in Ecological modelling 2018-2020

Graduate program in Ecology. Institute of Biology - Federal University of Rio de Janeiro, Brasil

Supervisor: Professor Rodrigo Leão de Moura.

research Title: Hierarchy for Time-Dependent Quantile regression model to predict coral cover.[Link]

research Title: Modelo de efeitos variando no tempo para dados composicionais. [Link]

Ph.D. in Statistics 2014-2018

Graduate program in Statistics. Institute of Mathematics - Federal University of Rio de Janeiro, Brasil

Supervisor: Professor Helio Migon.

Thesis Title: Joint modeling of longitudinal markers and survival data: an approach via dynamic hierarchical models.[Link to pdf]

Committee: Dani Gamerman, Thais Fonseca, Fábio Demarqui, Leonardo Soares Bastos

M.Sc. in Statistics 2012-2014

Graduate program in Statistics. Institute of Mathematics - Federal University of Rio de Janeiro, Brasil

Supervisors: Professor Fernando Moura.

Title: Modelo Hierárquico Robusto para o Risco coletivo com sobredispersao.[Link to pdf]

Committee: Helio Migon, Carlos Abanto Valle, Leonardo Soares Bastos.

B.Sc. in Statistics 1998-2002

National University Mayor de San Marcos, Perú

CURRENT ACTIVITY

Post-Doctoral in Oceanography 2020-2021

Marine Research Institute. Biotechnology Marine Department. Federal University of Rio de Janeiro, Brasil. FAPERJ scholarship.

ProjectTitle: Programa de monitoramento da Biodiversidade aquática nas áreas dulcícola - Estuarina e marinha. Espírito Santo. Rede Abrolhos.

SUPPLEMENTARY EDUCATION

NASA NASA's Applied Remote Sensing Training Program: Remote Sensing of Coastal Ecosystems.
2020

Geociências Curso de Extensão: Inteligência Artificial em Geociências.
Universidade de São Paulo. Instituto de Geociências.
2020

Ecology Curso de Extensão: Introdução à Ecologia dos Recifes Coralíneos.
Universidade Federal do Rio de Janeiro. Instituto de Biologia. Pós graduação em Ecologia Marinha.
2019

Statistics Curso de Extensão: An Introduction to data-driven modelling & Graph clustering.
Universidade de São Paulo. Instituto de Ciências Matemáticas e de Computação.
2017

Actuarial Science Minicurso: Financial Risk Management and Bayesian Statistics. Minas Gerais. Brasil
XIII Encontro Brasileiro de Estatística Bayesiana.
2016

Actuarial Science Curso de Extensão: Gestão de Seguros Patrimoniais. Rio de Janeiro, Brasil
Escola Nacional de Seguros.
2016

Management Curso/Taller: Proyectos de Inversión Pública. Lima, Perú
Universidad Nacional de San Marcos. Facultad de Economía.
2011

Management Curso/Taller: Gestión de Recursos Humanos en Organizaciones Eficientes. Lima, Perú
Universidad Nacional de San Marcos. Facultad de Economía.
2011

PROFESSIONAL EXPERIENCE

Post-Doctoral Research in Oceanography Federal University of Rio de Janeiro, Brasil
FAPERJ-Scholarship
2020

Post-Doctoral Research in Ecological modelling Federal University of Rio de Janeiro, Brasil
Institute of Biology
2018-2020

Lecturer in the Department of Mathematic at Federal University of Rio de Janeiro, Brasil
UFRJ
Undergraduate program of Statistics and Actuarial
2018-2019

Operations Manager/ Operations Assistant Kantar IBOPE Media Research
2010-2012/ 2007-2010

PUBLICATIONS

- [1] Moura, R. L., Abieri, M. L., Castro, G. M., Carlos-Júnior, L. A., **Chiroque-Solano, Pamela M.**, Fernandes, N. C., Teixeira, C. D., Ribeiro, F. V., Salomon, P. S., Freitas, M. O., Gonçalves, J. T., Neves, L. M., Hackradt, C. W., Felix-Hackradt, F., Rolim, F. A., Motta, F. S., Gadig, O. B. F., Pereira-Filho, G. H., and Bastos, A. C. (2021). Tropical rhodolith beds are a major and belittled reef fish habitat. *Nature:Scientific Reports*, 11(1):794.
- [2] Delgado, C. A., Shimabuku, R. L., and **Pamela M. Chiroque-Solano** (2020). Covid-19 waves: Importance of accumulative mortality per million inhabitants. *The Tohoku Journal of Experimental Medicine*, 251(1):47–49.
- [3] **Chiroque-Solano, Pamela** and Migon, H. (2018). *Joint modeling of longitudinal markers and survival data: an approach via dynamic hierarchical models*. PhD thesis, Federal University of Rio de Janeiro.
- [4] Chiroque-Solano, R. and **Chiroque-Solano, Pamela** (2017). Visibilidad de la revista médica herediana. una revisión mediante google scholar. *Revista Medica Herediana*, 28(3):166.
- [5] **Chiroque-Solano, Pamela** and Moura, F. (2014). Modelo Hierárquico Robusto para o Risco Coletivo com sobredispersão. Master's thesis, Federal University of Rio de Janeiro.
- [6] **Chiroque-Solano, Pamela** and Fernando, M. Robust overdispersed collective risk model. *Submitted*.
- [7] Teixeira, C., **Chiroque-Solano, Pamela**, Ribeiro, F., Carlos-Júnior, L., Neves, L., Salomon, P., Salgado, L., Falsarella, L., Cardoso, G., Villela, L., Freitas, M., Moraes, F., and Moura, R. Decadal (2006-2018) dynamics of southwestern atlantic's largest turbid zone reefs. *Submitted*.
- [8] Moura, R., Carvalho, G. O., Salomon, P. S., Freitas, M. O., Malm, O., Kasper, D., Ferreira-Filho, V. J. M., Obino, A., Pontes, D., Silva, C. N., Parente, C. E. T., Louzada, T. S., Gonçalves, J. T., **Chiroque-Solano, Pamela**, M. H.-S., Braga, R. R., and Musiello-Fernandes., J. Paradise lost? trace elements in fisheries resources from a biodiversity hotspot in the southwestern atlantic. *Submitted*.
- [9] Leitão, R., Ribeiro, F., **Chiroque-Solano, Pamela**, Salomon, P., Teixeira, C., Magdalena, U., Villela, L., Bastos, A., Falsarella, L., Cardoso, G., Pereira-Filho, G., Salgado, L., and Moura, R. Interspecific variation in resilience after mass coral bleaching in southwestern atlantic turbid-zone reefs. *Submitted*.
- [10] Amorin, A., Ribeiro, F., **Chiroque-Solano, Pamela**, Salomon, P., Teixeira, C., Magdalena, U., Villela, L., Bastos, A., Falsarella, L., Cardoso, G., Pereira-Filho, G., Salgado, L., and Moura, R. Benthic assemblages associated to the reefs off the amazon mouth. *Submitted*.

TEACHING

Lecturer in the Department of Biology at Federal University of Rio de Janeiro, Brasil
Graduate program of Biology (UFRJ)

Statistics for ecology; Statistical models for ecology; Bayesian Inference

2018-March 2020

Lecturer in the Department of Mathematic at Federal University of Rio de Janeiro, Brasil
UnderGraduate program of Statistics and Actuarial (UFRJ)

Undergraduated supervisor
Statistics I and II; Demographic; Statistics for biology
2018-2019

RESEARCH SUPERVISOR

Co-Supervisor Graduate program of Applied Mathematics (UFRJ). João Paulo Pinto Siqueira.
Modelagem de taxa de crescimento de infecção via $AR(1)$ de espaço de estados, um caso particular.
2018-2019

Supervisor Graduate program of Statistics and Actuarial (UFRJ). Mariana Soares Sá.
Modeling compositional data.
2020

Supervisor Graduate program of Statistics and Actuarial (UFRJ). Larissa Maracajá.
Modeling multivariate environmental ocean data.
2020

EXAMINATION COMMITTEE

Undergraduate Dissertation Graduate program of Biology - Marine Ecology (UFRJ). Daniela Chaves.
*Demographic trends of a long-lived coral (*Mussismilia braziliensis*) over a cross-shelf gradient.*
2019

Undergraduate Dissertation Graduate program of Biology - Marine Ecology (UFRJ). Juliana Barboza.
Partitioning temporal Beta-diversity benthic reef community in Abrolhos, Brazil.
2019

AWARDS AND GRANTS

Congress Studentship International Statistical Ecology Conference. Sydney, Australia. 2020

XIII Congreso Latino de sociedades de estadística (13 CLATSE). Guadalajara, Mexico. 2018

33 Foro Nacional de Estadística (33FNE). Guadalajara, Mexico. 2018

V Congreso Latinoamericano de Estadística Bayesiana. Guanajuato, Mexico. 2017

IV Congreso Latinoamericano de Estadística Bayesiana. Medellin, Colombia. 2015

Post-Doctoral reseach UFRJ, Brasil. Fundação de Amparo à Pesquisa do Estado do Rio de Janeiro
FAPERJ
2021

Post-Doctoral reseach UFRJ, Brasil. Fundação Espírito-Santense de Tecnologia Fest
FEST

2018-2020

PhD Studentship

CNPq and FAPERJ - E-26/200.319/2016(220962)

2014-2018

Federal University of Rio de Janeiro, Brasil

MSc Studentship

Capes and FAPERJ- E-26/100.402/2013(121366)

2012-2014

Federal University of Rio de Janeiro, Brasil

Amartya Sen Award: Human Development

PNUD: PROGRAMA DE LAS NACIONES UNIDAS PARA EL DESARROLLO

2010

Programa de formación en excelencia gerencial

Undergraduated Award

The 1st. Best CR in Statistics over 2003-2007

2007

National University Mayor de San Marcos, Perú

Medal of honor

Faculty of Matematical in the National University Mayor de San Marcos, Perú

The 1st. Best CR in Statistics over 2003-2007

2007

CODING AND HIGH PERFORMANCE COMPUTING

Google Earth Engine

Basic

R

Advanced

BUGS, JAGS, Stan

Advanced

ShinyApp

Advanced

Markdown

Advanced

Python

Intermediary

ArcGis

Intermediary

JOURNAL REVIEWER

Frontiers Marine Science

The Brazilian Journal of Epidemiology.

REFERENCES

Professor Fernando Moura

Professor of Statistics

Institute of Mathematics

Federal University of Rio de Janeiro, Rio de Janeiro, Brazil

fmoura@im.ufrj.br

Professor Rodrigo Leão de Moura

Professor of Ecology

Institute of Biology

Federal University of Rio de Janeiro, Rio de Janeiro, Brazil

moura.uesc@gmail.com

Professor Carlos A. Delgado. MD, PhD

Paediatrician Neonatologist – Third level paediatric hospital
Professor of Paediatrics – Universidad Nacional Mayor de San Marcos
Web: <https://vrip.unmsm.edu.pe/neo/>
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