

# Pamela M Chiroque-Solano

## PERSONAL DETAILS

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*Address*            Laboratório de Avaliação e  
                         Monitoramento da Biodiversidade  
                         SAGE-COPPE-UFRJ  
                         Avenida Moniz Aragão, 360 - Bloco 2  
                         Ilha do Fundão - Cidade Universitária  
                         Rio de Janeiro, Brazil, CEP: 21941594

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## ACADEMIC QUALIFICATIONS

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**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

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**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

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**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

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**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

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- [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., Hackrad, C. W., Felix-Hackrad, 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

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**Lecturer in the Department of Mathematic at Federal University of Rio de Janeiro, Brasil**

UnderGraduate program of Statistics and Actuarial (UFRJ)Link

*Undergraduated supervisor.*

*Statistics I and II; Demographic; Statistics for biology*

March 2018- Dec 2019

## RESEARCH SUPERVISOR

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**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

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**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

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**Approved to be an adjunct professor in the Department of Mathematic at Federal Rural University of Rio de Janeiro, Brasil** Graduate program of Statistics (UFRRJ).  
*Edital nº 96 de 18 de OUTUBRO de 2019, DOU de 21/10/2019, Seção III, págs 76 a 78. Link*  
2021

**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 research**

*FEST*

2018-2020

UFRJ, Brasil. Fundação Espírito-Santense de Tecnologia Fest

**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**

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Google Earth Engine

R

BUGS, JAGS, Stan

ShinyApp

Markdown

Python

ArcGis

Basic

Advanced

Advanced

Advanced

Advanced

Intermediary

Intermediary

## **JOURNAL REVIEWER**

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Frontiers Marine Science

The Brazilian Journal of Epidemiology.

## **REFERENCES**

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**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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