

**Ramsés Humberto Mena Chávez**

Curriculum Vitae

December 1, 2023

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Instituto de Investigaciones en Matemáticas  
Aplicadas y en Sistemas

Universidad Nacional Autónoma de México

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## 1 ►►► GENERAL INFORMATION

Name:	Ramsés Humberto Mena Chávez
Appointment:	Full Professor of Statistics
UNAM Assessment Bonus Program for Academic Personnel:	PRIDE level D
CONACyT Mexican Research System ranking:	National Researcher Level III
Place of birth:	Guadalajara, Jalisco. Mexico
Nationality:	Mexican
Current Institution:	Department of Probability and Statistics (DPyE) Instituto de Investigaciones en Matemáticas Aplicadas y en Sistemas (IIMAS) Universidad Nacional Autónoma de México (UNAM)
Research areas:	Bayesian nonparametrics Stochastic Processes Time series Stochastic simulation
Contact details:	<i>URL.</i> <a href="http://www.dpye.iimas.unam.mx/ramses/">http://www.dpye.iimas.unam.mx/ramses/</a> <i>Email.</i> <a href="mailto:ramses@sigma.iimas.unam.mx">ramses@sigma.iimas.unam.mx</a> <i>Telephone.</i> +525556223583
Bibliometrics:	<i>Google Scholar:</i> ramsesmena <i>Scopus ID:</i> 10040007900 <i>ORCID ID:</i> <a href="https://orcid.org/0000-0001-9608-8059">https://orcid.org/0000-0001-9608-8059</a>

## 2 ►►► EDUCATION

- **PhD in Mathematics** (Statistics) from the University of Bath, United Kingdom **2000-2003**  
Exam: November, 2003
- **MSc in Statistics** from IIMAS-UNAM **1998-2000**  
Exam: August, 2000
- **BSc in Actuarial Sciences** from the Faculty of Sciences–UNAM **1994-1998**  
Exam: June, 1999

### 3 >>> ACADEMIC APPOINTMENTS

#### 3.1 >> *Present*

- **Director** IIMAS–UNAM 2020–
- **Full Professor of Statistics** at IIMAS–UNAM from 2018
- **Elected Fellow** by the International Society for Bayesian Analysis (ISBA) from 2022

#### 3.2 >> *Past*

- **Chair of the Department** of Probability and Statistics at IIMAS–UNAM 2018–2020
- **Global Chair Visiting Professor** at the University of Bath, United Kingdom 2018–2020
- **Associate Professor level B** with tenure at IIMAS–UNAM 2011–2018
- **Visiting Fulbright Scholar** at the University of Texas at Austin, USA 2017–2018
- **Visiting Fellow** at the Collegio Carlo Alberto, Turin, Italy 2011–2012
- **Associate Professor level A** with tenure at IIMAS–UNAM 2007–2011
- **Tenure Track Assistant Professor** at IIMAS–UNAM 2005–2007
- **Postdoctoral position** at IIMAS–UNAM 2003–2005
- **Graduate Teaching Assistant** at the University of Bath, United Kingdom 2001–2002
- **Adjunct Professor** at the Universidad Anáhuac del Sur 2000
- **Adjunct Professor** at the Instituto Tecnológico Autónomo de México (ITAM) 2000
- **Graduate Teaching Assistant** at the Faculty of Sciences–UNAM 1998–2000

### 4 >>> NON-ACADEMIC EXPERIENCE

- **Statistical analyst for fast-counting in the presidential elections**  
for the Mexican Institute for Federal Elections (IFE). 2006
- **Statistical consultant** for ING-Comercial América. 2004
- **Statistical consultant** for Mexican Institute for Regional Development. 1999–2000, 2004
- **Statistical analyst** for Berumen and Associates. 1996–1998

## 5 »» SERVICE AND APPOINTMENTS IN ACADEMIC SOCIETIES

### 5.1 »» *International Society for Bayesian Analysis (ISBA)*

- **Elected Fellow** from 2022
- **Prize Committee Co-Chair** 2021
- **Nominating committee member** for Chair of the Scientific committee BNP 2019 2017
- **Committee member** for the Savage award 2016
- **Nominating committee** for Board members 2015
- **Past Program Chair** 2015
- **Program Chair** 2014
- **Nominating committee** for Board members 2014
- **Elect Program Chair** 2013
- **Committee member** for the Savage award 2011
- **Nominating committee** for Board members 2011
- **Program Chair** of the ISBA/BNP Section 2011
- **Co-Founder** of the ISBA/BNP Section 2010

### 5.2 »» *Bernoulli Society for Mathematical Probability and Statistics*

- **Board member** for the *Latin American Chapter* 2012–2021  
(Latin American Society for Probability and Mathematical Statistics –SLAPEM–)
- **Chair of Committee** for PhD Thesis award *Francisco Aranda-Ordaz* 2014
- **Co-Founder** of the *Electronic Bulletin of the Bernoulli Society* (E-Briefs) 2010–2011

### 5.3 »» *Mexican Statistical Association (AME)*

- **Past President** 2019–2021
- **President** 2017–2019
- **Elect President** 2015–2017
- **Board Member** 2005–2009

- **Co-Editor of DATOS:** Bulletin of the AME 2004–2008

## 6 >>> HONORS AND AWARDS

- **University of Bath Global Chair Visiting Appointment** 2018-2020  
Awarded by this University to distinguished academics.
- **Fulbright – García Robles Scholar** 2017–2018  
Awarded by the Congress of the United States of America
- **UNAM Award for young academics in exact sciences** 2014  
(RDUNJA-UNAM) for exact sciences.
- **Acknowledgement for being amongst most cited academics at UNAM** 2014  
in 2013 within the category of mathematics. DGAPA-UNAM.
- **Acknowledgement for being amongst most cited academics at UNAM** 2013  
in 2012 within the category of mathematics. DGAPA-UNAM.
- **UNAM Assessment Bonus Program for Academic Personnel**
  - PRIDE level " D " (highest) 2012–2026
  - PRIDE level " C " 2006–2011
- **Visiting Fellowships by:**
  - *University of Bath*, Bath, United Kingdom. 2018-2020
  - *University of Texas at Austin*, Texas, USA. 2017-2018
  - *Collegio Carlo Alberto*, Turin, Italy. 2011-2012
  - *International Centre for Economic Research (ICER)*, Turin, Italy. 2006, 2009
  - *Isaac Newton Institute*, Cambridge, United Kingdom. 2007
- **CONAHCyT Mexican Research System Ranking (SNII):**
  - Level III (highest) 2015–2024
  - Level II 2011–2014
  - Level I 2007–2010
  - Candidate level 2004–2006
- **Honorific mention at the "Savage Award 2005"** for the best PhD thesis 2005  
in Bayesian Statistics in Theory and Methods

## 7 »» TEACHING ACTIVITIES AND STUDENTS

### 7.1 » Courses

#### 7.1.1 » Postgraduate level at UNAM (FC, IM, IIMAS)

- Markov processes 2023
- Modern statistical computing 2022
- Simulation and inference of Markovian processes 2017, 2019, 2021
- Industry problem solutions 2020
- Bayesian nonparametric statistics 2016, 2018, 2019, 2020, 2022, 2023
- Random partitions and applications in statistics 2015
- Simulation techniques 2013
- Random measures and point processes 2013
- Random probability measures 2010, 2021
- Stochastic processes 2010, 2015, 2020
- Bayesian statistics II 2009
- Random probability measures and its applications 2008, 2010, 2014
- Time series 2006, 2007

#### 7.1.2 » Postgraduate courses outside UNAM

- *An introduction to Bayesian nonparametrics* 2023  
*PhD in Applied Probability and Statistics, University of Turin, Turin, Italy.*
- *Introductory lectures in Bayesian nonparametrics* 2019  
*University of Bath, Bath, United Kingdom.*
- *A short introduction to Bayesian nonparametrics* 2017  
*Department of Statistics and Data Science, University of Texas at Austin, USA.*
- *Bayesian nonparametric statistics* 2016  
*M.Sc. in Stochastics and Data Science, University of Turin, Turin, Italy.*

#### 7.1.3 » Undergraduate degree programs at the Faculty of Sciences at UNAM

- Bayesian Statistics 2008, 2014, 2016, 2017
- Stochastic simulation and control 2005



- \*Statistics I, \*Probability II, \*Statistics II 1998-2000  
\* Teaching assistant

#### 7.1.4 ▶ Undergraduate programs outside UNAM

- \* *Multivariate analysis*, \* *Linear models*, \* *Statistical inference* 2001, 2002  
\*Teaching assistant  
Department of Mathematics, University of Bath, Bath, United Kingdom.
- Calculus I, Probability II, Financial Simulation 2000  
Undergraduate program in Actuarial Sciences, Universidad Anáhuac, Mexico.
- Probability I 2000  
Instituto Tecnológico Autónomo de México, Mexico.

### 7.2 » Supervised students [44]

#### 7.2.1 ▶ Postdoctoral positions

7. **José Antonio Perusquia Cortés** 2022–2024
6. **Jaime Eduardo Martínez Sánchez** 2019–2020  
Assistant Professor at the Tecnológico de Monterrey, CDMX, Mexico.
5. **José Javier Quinlan Binelli** 2017–2019  
Senior Analist at EY-Consultans, Santiago, Chile.
4. **Claudia Andrea Wehrhahn Cortes** 2016–2017  
Data scientist at HDI Insurance, Chile.
3. **Luis Gutiérrez Inostroza** 2015–2016  
Assistant Professor at PUC, Santiago, Chile.
2. **Luz Judith Rodriguez Esparza** 2013–2014  
CONACyT Assistant Professor position  
Universidad Autónoma de Aguascalientes, Mexico.
1. **Gerónimo Francisco Uribe Bravo** 2008–2009  
Associate Professor " Level B "  
Institute of Mathematics, UNAM, Mexico.

#### 7.2.2 ▶ PhD programs

9. **Iliá Naumkin Kaikina**. Mathematical Sciences UNAM 2018–  
PhD Candidate since 2020
8. **Pablo Jorge Hernández Hernández**. (Co-supervision) Mathematical Sciences UNAM 2017–  
PhD Candidate since 2020

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7. **María Fernanda Gil Leyva Villa.** Mathematical Sciences UNAM *Awarded: Oct 2021*  
(with Distinction; FAO-Bernoulli Award 2023)  
Assistant Professor at IIMAS-UNAM, Mexico.
  6. **Michelle Anzarut Chacalo.** Mathematical Sciences UNAM *Awarded: Nov 2017*  
Independent Data Analyst .
  5. **Freddy Palma Mancilla.** Mathematical Sciences UNAM *Awarded: Sep 2017*  
Tenure track position at the UDLAP, Mexico and member of SNI.
  4. **Asael F. Martínez Martínez.** Mathematical Sciences UNAM *Awarded: Feb 2016*  
Tenured Professor at UAM-I.
  3. **Arrigo Coen Coria.** Mathematical Sciences UNAM *Awarded: Nov 2015*  
Data Scientist at *Great Wolf Resorts*.
  2. **Consuelo Rubina Nava.** (Co-supervision) at the University of Turin, Italy. *Awarded: Feb 2014*  
Professor at the Università della Valle D'Aosta, Italy.
  1. **Karla E. Medina Díaz.** (Co-supervision) at the University of Turin, Italy. *Awarded: Mar 2011*  
Banorte Generali Insurance.
- 7.2.3 ▶ MSc programs**
16. **Aideé Violeta Enroth Ortiz** *Awarded: Feb 2022*  
MSc Mathematical Sciences UNAM. (*With honors; 2nd place FAO-AME Award 2023*)  
Data scientist at LIS Data Solutions, Spain.
  15. **Bernardo Flores López** *Awarded: Jun 2021*  
MSc Mathematical Sciences UNAM. (*With honors*)  
PhD Student at UT-Austin, USA.
  14. **Carlos Fidel Selva Ochoa** *Awarded: Jan 2021*  
MSc Mathematical Sciences UNAM  
PhD Student at UNAM, Mexico.
  13. **José Antonio Perusquia Cortés** *Awarded: Sep 2017*  
MSc Mathematical Sciences UNAM  
Postdoctoral position at IIMAS-UNAM
  12. **María Fernanda Gil Leyva Villa** *Awarded: Sep 2016*  
MSc Mathematical Sciences UNAM  
Assistant Professor at IIMAS-UNAM, Mexico.
  11. **Iván Darío Peñaloza Rojas** *Awarded: Apr 2016*  
MSc Mathematical Sciences UNAM

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Data Science Manager at Citibanamex, Mexico.

10. **Alan Riva Palacio Cohen** *Awarded: Jun 2015*  
MSc Mathematical Sciences UNAM  
Assistant Professor at IIMAS-UNAM, Mexico.
9. **Freddy Palma Mancilla** *Awarded: Jun 2012*  
MSc Mathematical Sciences UNAM  
Tenure track position at the UDLAP, Mexico and member of SNI.
8. **Oscar Ortega Ibañez** *Awarded: Mar 2012*  
MSc Mathematical Sciences UNAM  
Analyst and researcher at CF Energía, Mexico.
7. **Adriana Roldán Rodríguez** *Awarded: Jan 2012*  
MSc Mathematical Sciences UNAM  
Analyst and researcher at CF Energía, Mexico.
6. **Arrigo Coen Coria** *Awarded: Aug 2011*  
MSc Mathematical Sciences UNAM  
Data Scientist at *Great Wolf Resorts*.
5. **María D. Lomelí García** *Awarded: Aug 2011*  
MSc Mathematical Sciences UNAM  
Researcher at Babylon Health, London, United Kingdom.
4. **Asael F. Martínez Martínez** *Awarded: Feb 2011*  
MSc Mathematical Sciences UNAM.  
(1<sup>st</sup> place, "Francisco Aranda 2012")  
Tenure track Assistant Professor at UAM-I.
3. **Isadora Antoniano Villalobos** *Awarded: Jun 2008*  
MSc Mathematical Sciences UNAM.  
(1<sup>st</sup> place, "Francisco Aranda 2008")  
Associate Professor at Ca' Foscari University of Venice, Italy.
2. **Miguel A. Polo Vuelas** *Awarded: May 2007*  
MSc Applied and Industrial Mathematical Sciences UAM-I.  
(Co-direction)
1. **Karla E. Medina Díaz** *Awarded: Dec 2006*  
MSc Mathematical Sciences UNAM.  
Banorte Generali Insurance.

#### 7.2.4 » Undergraduate programs

14. **Ana Eréndira Torres Ramírez** *Awarded: Dec 2020*  
Actuarial Sciences, FC-UNAM, Mexico.
13. **Carlos Garza Bracamontes** *Awarded: Jan 2020*  
Actuarial Sciences, FC-UNAM, Mexico.
12. **Erick Iván Castro Granados** *Awarded: May 2019*  
Actuarial Sciences, FC-UNAM, Mexico.
11. **Bernardo Flores López** *Awarded: Mar 2019*  
Actuarial Sciences, FC-UNAM, Mexico.
10. **Pablo Ulises Hernández Garcés** *Awarded: Aug 2018*  
Actuarial Sciences, FC-UNAM, Mexico.
9. **César Esquivel Hernández** *Awarded: Sep 2017*  
Actuarial Sciences, FC-UNAM, Mexico.
8. **Eduardo Selim Martínez Mayorga** *Awarded: Jul 2017*  
Degree in Mathematical Sciences, FC-UNAM, Mexico.
7. **Edwin Gerardo Maldonado Ramos** *Awarded: Dec 2014*  
Actuarial Sciences, FC-UNAM, Mexico.
6. **Andrea América Sandoval Zárate** *Awarded: Aug 2012*  
Actuarial Sciences, FC-UNAM, Mexico.
5. **Diego Imanol Valenzuela Franco** *Awarded: Oct 2010*  
Actuarial Sciences, FC-UNAM, Mexico.
4. **Oscar Ortega Ibañez** *Awarded: Aug 2009*  
Actuarial Sciences, FC-UNAM, Mexico.
3. **Ramiro F. Martin del Campo** *Awarded: Jun 2009*  
Degree in Mathematical Sciences, FC-UNAM, Mexico.
2. **Erik Armando Vázquez Rivera** *Awarded: May 2007*  
Actuarial Sciences, FC-UNAM, Mexico.
1. **Carlos V. Rodríguez Caballero** *Awarded: May 2005*  
Actuarial Sciences, FC-UNAM, Mexico.

### 7.3 » Social service activities supervision

53. Iván Mora	2023-I/2023-II	26. Karina Romero	2021-I/2021-II
52. Martín Guzmán	2023-I/2023-II	25. Samantha Sanchez	2021-I/2021-II
51. Eduardo Trejo	2023-I/2023-II	24. David Guzmán	2021-I/2021-II
50. Lola Serrano	2022-II/2023-I	23. Brenda Ramírez	2021-I/2021-II
49. Abraham Gutiérrez	2022-II/2023-I	22. Larissa Arreola	2020-II/2021-I
48. Karla Trigueros	2022-I/2022-II	21. León Rivera	2020-II/2021-I
47. Gerardo Martínez	2022-I/2022-II	20. Paola Pérez	2020-II/2021-I
46. Juan Sabino	2022-I/2022-II	19. Ana Ochoa	2020-II/2021-I
45. Alberto Cano	2022-I/2022-II	18. Luis Celis	2020-II/2021-I
44. María Vidal	2022-I/2022-II	17. Arely Munguía	2020-II/2021-I
43. Diana Rojas	2021-II/2022-I	16. Rodrigo Nava	2020-I/2020-II
42. Juan Martínez	2021-II/2022-I	15. Vanessa Soulé	2020-I/2020-II
41. Andrea Hernández	2021-II/2022-I	14. Gilberto Rodríguez	2020-I/2020-II
40. Aldo Santillán	2021-II/2022-I	13. Ana Torres	2020-I/2020-II
39. Emmanuel Sánchez	2021-II/2022-I	12. Luis Conde	2020-I/2020-II
38. Raúl Mosqueda	2021-II/2022-I	11. Paola Escobar	2019-II/2020-I
37. Victoria Márquez	2021-I/2021-II	10. Luisa Zepeda	2019-II/2020-I
36. Enrique Moctezuma	2021-I/2021-II	9. Rodrigo Cariño	2019-I/2019-II
35. Sinuhé Hinojosa	2021-I/2021-II	8. Rodrigo Flores	2019-I/2019-II
34. Alex García	2021-I/2021-II	7. Uziel Vera	2019-I/2019-II
33. Diego Chávez	2021-I/2021-II	6. Jorge Miranda	2019-I/2019-II
32. Miriam Mora	2021-I/2021-II	5. Bernardo Flores	2017-II/2018-I
31. María Cázares	2021-I/2021-II	4. Ana Vázquez	2017-II/2018-I
30. Jorge Sandoval	2021-I/2021-II	3. Silvia Méndez	2017-I/2017-II
29. Ramiro Bravo	2021-I/2021-II	2. Enrique Reyes	2017-I/2017-II
28. Luis Abaunza	2021-I/2021-II	1. Fernando Corchado	2017-I/2017-II
27. Erika López	2021-I/2021-II		

## 7.4 » Tutorial and/or exam committee member [92]

The lists below exclude students supervised.

### 7.4.1 » PhD exams committee

- |  |             |
|--|-------------|
| 6. Claudia Juárez Gallegos   | <b>2023</b> |
| Diploma: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)                  |             |
| 5. Guadalupe Eunice Campirán García  | <b>2018</b> |
| Diploma: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)                  |             |
| 4. Fernando Baltazar Larios  | <b>2011</b> |
| Diploma: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)                  |             |
| 3. Bernardo Nipoti   | <b>2011</b> |
| Diploma: <i>PhD in Mathematics and Statistics - University of Pavia, Pavia, Italia</i> |             |
| 2. José Luis A. Pérez Garmendia  | <b>2009</b> |
| Diploma: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)                  |             |
| 1. Nelson O. Muriel Torrero  | <b>2009</b> |
| Diploma: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)                  |             |

### 7.4.2 » Doctoral candidate exams committee

Diploma sought: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)

- |                                     |             |
|-------------------------------------|-------------|
| 8. Alejandro Hernández Wences       | <b>2019</b> |
| 7. Iván Darío Peñaloza Rojas        | <b>2019</b> |
| 6. Fernando Daniel Pérez Arriaga    | <b>2015</b> |
| 5. Juan Martín Barrios              | <b>2012</b> |
| 4. Guadalupe Eunice Campirán García | <b>2011</b> |
| 3. Abel Castro Mesa                 | <b>2009</b> |
| 2. Fernando Baltazar Larios         | <b>2009</b> |
| 1. Margarita Tetlamatzi Montiel     | <b>2008</b> |

### 7.4.3 » Tutorial committee member for PhD students

- |  |                  |
|--|------------------|
| 10. Iván Darío Peñaloza Rojas  | <b>2018-2022</b> |
| Diploma sought: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS) |                  |
| 9. Marisol Martínez Ramos  | <b>2018-2023</b> |
| Diploma sought: PhD program in Ecology and Sustentable Development, ECOSUR.  |                  |

- |   |                  |
|---|------------------|
| 8. Rogelio Oscar Caballero Pérez  | <b>2017-2018</b> |
| Diploma sought: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)          |                  |
| 7. Lizbeth Peñaloza Velasco   | <b>2016</b>      |
| Diploma sought: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)          |                  |
| 6. Angtuncio Hernandez Osvaldo  | <b>2013-2019</b> |
| Diploma sought: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)          |                  |
| 5. Fernando Daniel Pérez Arriaga  | <b>2013-2016</b> |
| Diploma sought: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)          |                  |
| 4. Juan Martín Barrios  | <b>2010-2013</b> |
| Diploma sought: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)          |                  |
| 3. Guadalupe E. Campirán García   | <b>2007-2018</b> |
| Diploma sought: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)          |                  |
| 2. Miguel Angel Sanchez Barquín   | <b>2010</b>      |
| Diploma sought: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)          |                  |
| 1. Georgia Hadjicharalambous  | <b>2006-2010</b> |
| Diploma sought: <i>Dottorato di Ricerca in Economia</i> , University of Turin, Italy. |                  |

#### 7.4.4 ▶ MSc tutor

- |  |             |                                 |             |
|--|-------------|---------------------------------|-------------|
| 21. Humberto Velázquez Rodríguez           | <b>2021</b> | 10. Fernando D. Perez Arriaga   | <b>2010</b> |
| 20. Eric Martínez Maldonado                | <b>2020</b> | 9. Arrigo Coen Coria            | <b>2009</b> |
| 19. Katherine Arias Sanshez                | <b>2020</b> | 8. Laura N. Liljehult León      | <b>2009</b> |
| 18. Aidée V. Enroth Ortiz                  | <b>2020</b> | 7. Victor A. Anaya Sánchez      | <b>2009</b> |
| 17. Bernardo Flores López                  | <b>2019</b> | 6. Jorge A. Sandoval de la Rosa | <b>2008</b> |
| 16. Francisco Paz Cendejas                 | <b>2018</b> | 5. Berenice Becerra Ortega      | <b>2007</b> |
| 15. José A. Perrusquia Cortes              | <b>2015</b> | 4. David J. Santana Cobian      | <b>2007</b> |
| 14. Alma R. Bustamante García              | <b>2014</b> | 3. Sergio U. Andraca Castillo   | <b>2007</b> |
| 13. Edwin G. Maldonado Ramos               | <b>2013</b> | 2. Karol A. Rosen Esquivel      | <b>2006</b> |
| 12. Leticia Rodríguez de San Miguel Lupián | <b>2011</b> | 1. Karla E. Medina Díaz         | <b>2005</b> |
| 11. Samanta P. Saavedra Cortés             | <b>2010</b> |                                 |             |

#### 7.4.5 ▶ MSc programs committee member

- |                                 |             |                                      |             |
|---------------------------------|-------------|--------------------------------------|-------------|
| 6. Uziel J. González González   | <b>2014</b> | 3. Enrique Méndez Ríos               | <b>2006</b> |
| 5. Lizbeth Naranjo Albarrón     | <b>2008</b> | 2. Luis Gonzalo León Novelo          | <b>2005</b> |
| 4. Alberto Manuel Padilla Terán | <b>2008</b> | 1. Carlos Ernesto Martínez Rodríguez | <b>2005</b> |

#### 7.4.6 ▶ Undergraduate programs committee member

39. Thomas Bladt Eslava	2021	19. Xanat L. González Méndez	2011
38. César A. Pérez Rosas	2020	18. Jonathan Jaimes Pérez	2011
37. María C. Guzmán Solís	2019	17. Angélica M. Godínez Chapparro	2011
36. Carmen J. Ayala Macias	2017	16. Velvet Malvaez Orozco	2011
35. Jorge Calderón Espinosa de los Monteros	2017	15. Francisco J. Méndez Correa	2011
34. Ismael Rivero Guzman	2017	14. Gustavo E. Pescador Jiménez	2011
33. Servando Valdés Cruz	2017	13. Gabriel M. Uribe Bravo	2011
32. Ana C Gómez Ugarte Valerio	2016	12. María F. del C. Agoitia Hurtado	2010
31. Delia Marín Rodríguez	2016	11. Arrigo Coen Coria	2010
30. Rodrigo Ríos Orduña	2016	10. José B. Díaz Hernández	2010
29. Enrique G Sanjuanaero Sánchez	2016	9. Sergio Rodríguez Hernández	2010
28. Martín Bladt Eslava	2015	8. Mirtha Ayala Macías (ITAM)	2008
27. Jose R. Iniesta Miranda	2015	7. María E. Hernández Hernández	2008
26. Elena Paniagua Avila	2014	6. Mario E. Pimentel Rosas	2008
25. Octavio B. Zapata Fonseca	2014	5. Edgar Díaz Ordoñez	2007
24. Adrián Hinojosa Calleja	2013	4. Miguel Hernández Hernández	2007
23. Oscar Peralta Gutiérrez	2013	3. Elizabeth Monroy Cruz	2006
22. Uziel J. González González	2012	2. Fernando Baltazar Larios	2005
21. Mayra D. Bermúdez Contreras	2011	1. Roberta Betanzo Sota	2005
20. Viviana Díaz Magallanes	2011		

#### 7.4.7 ▶ MPhil in statistics program committee member

2. Valentina Jiménez Franco	2007	1. Fernando Pérez Márquez	2007
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## 8 ▶▶ PUBLICATIONS [72]

### 8.1 ▶▶ Published and/or accepted articles in indexed journals

49. Riva-Palacio, A., Mena, R.H. and Walker, S.G. (2023). On the estimation of partially observed continuous-time Markov chains. *Computational Statistics*. 38, 1357-1389. [ISSN:0943-4062; E-ISSN:1613-9658; Impact factor (JCR): 1.405]
48. Martínez-Ramos, M., González-Espinosa, M., Ramírez-Marcial, N., Negrete-Yankelevich, S. and Mena, R.H. (2023). Mid- and long-term ecological changes after enrichment planting with native



- tree species in Mexican tropical mountain forests. *Restoration Ecology*. 31-4, e13847. [ISSN:1526-100X; Impact factor (JCR): 4.181]
47. Gil-Leyva, M.F. and Mena, R.H. (2023). Stick-breaking processes with exchangeable length variables. *Journal of the American Statistical Association*. 118, 537-550. [ISSN:0162-1459; E-ISSN:1537-274X; Impact factor (JCR): 5.033]
46. Martínez, A. F., Chaudhuri, S., Díaz-Avalos, C., Juan, P., Mateu, J. and Mena, R.H. (2023). Clustering constrained on linear networks. *Stochastic Environmental Research and Risk Assessment*. 37, 1983–1995 [E-ISSN:1436-3259; P-ISSN: 1436-3240; Impact factor (JCR): 3.821]
45. Pereira, L.A., Gutiérrez, L., Taylor-Rodríguez, D. and Mena, R.H. (2023). Bayesian nonparametric hypothesis testing for longitudinal data analysis. *Computational Statistics and Data Analysis*. 179, 107629. [ISSN:0167-9473; Impact factor (JCR): 1.681]
44. Rodríguez, C.E. and Mena, R.H. (2022). COVID-19 Clinical footprint to infer about mortality. *Journal of the Royal Statistical Society. Series A.*, 185, S547–S572. [ISSN:09641998; E-ISSN:1467-985X; Impact factor (JCR): 2.175]
43. Ayala, D., Jofré, L., Gutiérrez, L. and Mena R.H. (2022). On a Dirichlet process mixture representation of phase-type distributions. *Bayesian Analysis*. 17(3), 765–790. [ISSN:1931-6690; E-ISSN:1936-0975; Impact factor (JCR): 2.695]
42. De Blasi, P., Mena, R.H. and Prünster, I. (2022). Asymptotic behavior of the number of distinct values in a sample from the geometric stick-breaking process. *Annals of the Institute of Statistical Mathematics*. 74, 143-165. [ISSN:0020-3157; Impact factor (JCR): 1.267]
41. Quinlan, J.J., Díaz Avalos, C. and Mena, R.H. (2021). Modeling wildfires via marked spatio-temporal Poisson processes. *Environmental and Ecological Statistics*. 28, 549-565. [ISSN:1352-8505; Impact factor (JCR): 1.119]
40. Palma, F. and Mena, R.H. (2021). Duality for a class of continuous-time reversible Markov models. *Statistics: A Journal of Theoretical and Applied Statistics*. 55, 231-242. [ISSN:0233-1888; E-ISSN:1029-4910; Impact factor (JCR): 1.051]
39. Mena, R.H., Velasco, J., Mantilla, N., Carranco-Sapiens, G.A., Benet, L., Boyer, D. and Perez-Castillo, I. (2020). Using posterior predictive distributions to analyse epidemic models: COVID-19 in Mexico City. *Physical Biology*. 17, 065001. [ISSN:1478-3967; Impact factor (JCR): 2.583]
38. Gil-Leyva, M.F., Mena, R.H. and Nicolieris, T. (2020) Beta-Binomial stick-breaking non-parametric prior. *Electronic Journal of Statistics*. 14, 1479-1507. [ISSN:1935-7524; Impact factor (JCR): 1.125]
37. De Blasi, P., Martínez, A.F., Mena, R.H., and Prünster, I. (2020). On the inferential implications of decreasing weight structures in mixture models. *Computational Statistics and Data Analysis*. 147,

106940.  
[ISSN:0167-9473; Impact factor (JCR): 1.681]
36. Gutiérrez, L., Mena, R.H. and Díaz Avalos, C. (2020). Linear models for statistical shape analysis based on parametrized closed curves. *Statistical Papers*. 61, 1213-1229.  
[ISSN:0167-9473; Impact factor (JCR): 2.234]
35. Mena, R.H. and Palma, F. (2020). Continuous-time Markov processes, orthogonal polynomials and Lancaster probabilities. *ESAIM: Probability and Statistics*. 24, 100–112  
[ISSN:1292-8100; Impact factor (JCR): 0.745]
34. Coen, A., Gutiérrez, L. and Mena R.H. (2019). Modeling failures times with dependent renewal type models via exchangeability. *Statistics: A Journal of Theoretical and Applied Statistics*. 53, 1112–1130  
[ISSN:0233-1888; E-ISSN:1029-4910; Impact factor (JCR): 1.051]
33. Damien, P., Fuentes-García, R., Mena, R.H. and Zarnikau, J. (2019). Impacts of day-ahead versus real-time market prices on wholesale electricity demand in Texas. *Energy Economics*. 81, 259–272.  
[ISSN:0140-9883; Impact factor (JCR): 7.042]
32. Leisen, F., Mena, R.H., Palma, F. and Rossini, L. (2019). On a flexible construction of a negative binomial model. *Statistics and Probability Letters*. 152, 1–8.  
[ISSN:0167-7152; Impact factor (JCR): 0.87]
31. Fuentes-García, R., Mena, R.H., and Walker, S.G. (2019). Modal posterior clustering via Hopfield's network. *Computational Statistics and Data Analysis*. 137, 92–100.  
[ISSN:0167-9473; Impact factor (JCR): 1.681]
30. Gutiérrez, L., Gutiérrez-Peña, E. and Mena R.H. (2019). A Bayesian approach to statistical shape analysis via the projected normal distribution. *Bayesian Analysis*. 14(2), 427-447.  
[ISSN:1931-6690; E-ISSN:1936-0975; Impact factor (JCR): 2.695]
29. Anzarut, M. and Mena, R.H. (2019). Harris process to model stochastic volatility. *Econometrics and Statistics*. 10, 151-169.  
[ISSN:2452-3062, CiteScore= 2.4]
28. Anzarut, M., Mena, R., Nava, C. and Prünster, I. (2018). Poisson Driven Stationary Markov Models. *Journal of Business and Economic Statistics*. 36, 684-694.  
[ISSN:0735-0015; Impact factor (JCR): 6.565]
27. Gutiérrez, L., Mena, R.H., Ruggiero, M. (2016). A time dependent Bayesian nonparametric model for air quality analysis. *Computational Statistics and Data Analysis*. 95, 161-175.  
[ISSN:0167-9473; Impact factor (JCR): 1.681]
26. Mena, R.H. and Ruggiero, M. (2016). Dynamic density estimation with diffusive Dirichlet mixtures. *Bernoulli*. 22, 901-926.  
[ISSN:1350-7265; Impact factor (JCR): 1.595]
25. Mena, R.H. and Walker, S.G. (2015). On the Bayesian mixture model and identifiability. *Journal of Computational and Graphical Statistics*. 24, 1155-1169.

- [ISSN:1061-8600; Impact factor (JCR): 2.302]
24. Coen, A. and Mena, R.H. (2015). Ruin probabilities for Bayesian exchangeable claims processes. *Journal of Statistical Planning and Inference*. 166, 102–115.  
[ISSN:0378-3758; Impact factor (JCR): 1.111]
  23. De Blasi, P., Favaro, S., Lijoi, A., Mena, R.H, Prünster, I. and Ruggiero, M. (2015). Are Gibbs-type priors the most natural generalization of the Dirichlet process? *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 37, 212-229.  
[ISSN:0162-8828; Impact factor (JCR): 16.389]
  22. Martínez, A.F. and Mena, R.H. (2014). On a nonparametric change point detection model in Markovian regimes. *Bayesian Analysis*, 9, 823-858.  
[ISSN:1931-6690; E-ISSN:1936-0975; Impact factor (JCR): 2.695]
  21. Gutiérrez, L., Gutiérrez-Peña, E. and Mena, R.H. (2014). Bayesian nonparametric classification for spectroscopy data. *Computational Statistics and Data Analysis*. 78, 56-68.  
[ISSN:0167-9473; Impact factor (JCR):1.681]
  20. Mena, R.H. and Walker, S.G. (2012). An EPPF from independent sequences of geometric random variables. *Statistics and Probability Letters*, 82, 1059-1066.  
[ISSN:0167-7152; Impact factor (JCR): 0.87]
  19. Mena, R.H., Ruggiero, M. and Walker, S.G. (2011). Geometric stick-breaking processes for continuous-time Bayesian nonparametric modeling. *Journal of Statistical Planning and Inference*, 141, 3217-3230.  
[ISSN:0378-3758; Impact factor (JCR): 1.111]
  18. Fuentes-García, R., Mena, R.H., and Walker, S.G. (2010). A probability for classification based on the mixture of Dirichlet process model. *Journal of Classification*, 27, 389-403.  
[ISSN:0176-4268; E-ISSN:1432-1343; Impact factor (JCR): 1.673]
  17. Mena, R.H. and Nieto-Barajas, L.E. (2010). Exchangeable claim sizes in a compound Poisson type process. *Applied Stochastic Models in Business and Industry*, 26, 737-757.  
[ISSN:1524-1904; E-ISSN:1526-4025; Impact factor (JCR): 1.338]
  16. Fuentes-García, R., Mena, R.H., and Walker, S.G. (2010). A new Bayesian nonparametric mixture model. *Communications in Statistics, Simulation and Computation* 39, 669-682.  
[ISSN:0361-0918; Impact factor (JCR): 1.118]
  15. Mena, R.H. and Walker, S.G. (2009). Construction of Markov processes in continuous time. *Metron—International Journal of Statistics*. 67, 303-323.  
[ISSN:0026-1424; Impact factor (JCR): 0.725]
  14. Favaro, S., Lijoi, A., Mena, R.H., and Prünster, I. (2009). Bayesian nonparametric inference for species variety with two parameter Poisson-Dirichlet process prior. *Journal of the Royal Statistical Society Series B*. 71, 993-1008.  
[ISSN:1369-7412; E-ISSN:1467-9868; Impact factor (JCR): 4.488]

13. Fuentes-García, R., Mena, R.H. and Walker, S.G. (2009). A nonparametric dependent process for Bayesian regression. *Statistics and Probability Letters*. 79, 1112-1119.  
[ISSN:0167-7152; Impact factor (JCR):0.87]
12. Contreras-Cristán, A., Mena, R.H. and Walker, S.G. (2009). On the construction of stationary AR(1) models via random distributions. *Statistics: A Journal of Theoretical and Applied Statistics*. 43, 227-240.  
[ISSN:0233-1888; E-ISSN:1029-4910; Impact factor (JCR): 1.051]
11. Lijoi, A., Mena, R.H. and Prünster, I. (2008). A Bayesian nonparametric approach for analyzing and testing clustering structures in EST libraries. *Journal of Computational Biology*. 15, 1315-1327.  
[ISSN:1066-5277; E-ISSN:1557-8666; Impact factor (JCR): 1.479]
10. Lijoi, A., Mena, R.H. and Prünster, I. (2007). A Bayesian nonparametric method for prediction in EST analysis. *BMC Bioinformatics*. 8:339.  
[ISSN:1471-2105; Impact factor (JCR): 2.448]
9. Lijoi, A., Mena, R.H. and Prünster, I. (2007). Controlling the reinforcement in Bayesian nonparametric mixture models. *Journal of the Royal Statistical Society Series B*. 69, 715-740.  
[ISSN:1369-7412; E-ISSN:1467-9868; Impact factor (JCR): 4.488]
8. Lijoi, A., Mena, R.H. and Prünster, I. (2007). Bayesian nonparametric estimation of the probability of discovering new species. *Biometrika*. 94, 769-786.  
[ISSN:0006-3444; E-ISSN:1464-3510; Impact factor (JCR): 2.445]
7. Mena, R.H. and Walker, S.G. (2007). Stationary Mixture Transition Distribution (MTD) models via predictive distributions. *Journal of Statistical Planning and Inference*. 137, 3103-3112.  
[ISSN:0378-3758; Impact factor (JCR): 1.111]
6. Mena, R.H. and Walker, S.G. (2007). On the stationary version of the generalized hyperbolic ARCH model. *Annals of the Institute of Statistical Mathematics*. 59, 325-348.  
[ISSN:0020-3157; Impact factor (JCR): 1.267]
5. Escarela, G., Mena, R.H. and Castillo-Morales, A. (2006) A flexible class of parametric transition regression models based on copulas: application to poliomyelitis incidence. *Statistical Methods in Medical Research*. 15, 593-609.  
[ISSN:0962-2802; E-ISSN:1477-0334; Impact factor (JCR): 3.021]
4. Mena, R.H. and Walker, S.G. (2005). Stationary autoregressive models via a Bayesian nonparametric approach. *Journal of Time Series Analysis*, 26, 789-805.  
[ISSN:0143-9782; E-ISSN:1467-9892; Impact factor (JCR): 1.366]
3. Lijoi, A., Mena, R.H. and Prünster, I. (2005). Hierarchical mixture modelling with normalized inverse Gaussian priors. *Journal of the American Statistical Association*, 100, 1278-1291.  
[ISSN:0162-1459; E-ISSN:1537-274X; Impact factor (JCR): 5.033]
2. Lijoi, A., Mena, R.H. and Prünster, I. (2005). Bayesian nonparametric analysis for a generalized Dirichlet process prior. *Statistical Inference for Stochastic Processes*, 8, 283-309.  
[ISSN:1387-0874; E-ISSN:1572-9311; Impact factor (JCR): 1.104]

1. Mena, R.H. and Walker, S.G. (2004). A density function connected with a non-negative self-decomposable random variable. *Journal of Statistical Computation and Simulation*, 74, 765–775. [ISSN:0094-9655; Impact factor (JCR): 1.424]

## 8.2 » Book chapters

2. Rodríguez, C.E. and Mena, R.H. (2023). Statistical modeling to understand the COVID-19 pandemic. In *Mathematical Modelling, Simulations, and AI for Emergent Pandemic Diseases: Lessons Learned from COVID-19*, Hernandez-Vargas, E. and Velasco-Hernandez, J. X. Eds. Academic Press. [ISBN: 9780323950640]
1. Mena, R.H. (2013). Geometric Weight Priors and their Applications in Bayesian Nonparametrics. In *Bayesian Theory and Applications*. Damien, P., Dellaportas, P., Polson, N. G. and Stephen, D.A. Eds. Oxford University Press. [ISBN10: 0199695601]

## 8.3 » Proceedings

9. Gutierrez Inostroza, L., Mena, R.H., and Ruggiero, M. (2016). On GEM diffusive mixtures. In *JSM Proceedings 2016, Section on Nonparametric Statistics*. Alexandria, VA: American Statistical Association. [ISBN: 978-0-9839375-2-4]
8. Nava, C., Mena, R.H., and Prünster, I. (2014). On some stationary models: Construction and Estimation. *Springer Proceedings in Mathematics & Statistics*, 63, 187–191. [ISBN-10: 3319020838, ISBN-13: 978-3319020839; Impact factor (JCR): 1.464]
7. Nava, C., Mena, R.H., and Prünster, I. (2013). On Stationary Markov Models: a Poisson-driven approach. *Proceedings of the 8th Conference on Statistical Computing and Complex Systems - SCo 2013*, 6pp (electronic). [ISBN:9788864930190]
6. De Blasi, Favaro, S., P., Lijoi, A. Mena, R.H. and Prünster, I. (2012). Two tales about Bayesian nonparametric modeling. *JSM Proceedings 2012*, Alexandria, VA: American Statistical Association. [ISBN: 978-0-9839375-2-4]
5. Favaro, S., Lijoi, A., Mena, R.H., Prünster, I. (2011). On some issues related to species sampling problems. In *Proceedings of the 7th Conference on Statistical Computing and Complex Systems - SCo 2011*. (Padova, 19-21 September 2011), 9pp. [ISBN: 978-88-6129-753-1]
4. Mena, R.H. and Prünster, I. (2007). Alcune considerazioni sulle elezioni presidenziali messicane del 2006. *Magazine della società italiana di statistica*. Revista electrónica [<http://old.sis-statistica.org/magazine/spip.php?article55>]
3. Lijoi, A., Mena, R.H. and Prünster, I. (2006). Bayesian clustering in nonparametric hierarchical mixture models. *Atti del XLIII Riunione Scientifica SIS (Torino, Italy, June 14-16, 2006)*. Vol. I "Plenary and invited sessions", 449–460. [ISBN 88-7178-791-9]
2. Escarela, G., Mena, R.H. y Castillo-Morales, A. (2006). Modelling Non-Gaussian Time Series with a Mixture Copula Transition Model. *En: Hinde, J.; Einbeck, J. y Newell, J. (eds.), Proceedings of the 21st International Workshop on Statistical Modelling (IWSM), Galway, Irlanda*. 164-171. [ISBN-13: 9781862201804, ISBN-10: 1862201803]

1. Contreras-Cristán, A., Mena, R. H. and Walker, S. G. (2006). Acerca de la construcción de modelos AR(1) utilizando densidades predictivas que emergen de la estadística bayesiana no paramétrica. *Memoria del XX foro nacional de estadística INEGI-AME*. 17–24. [ISBN 970-13-4692-0]

#### 8.4 » Books and/or Edited Volumes

6. Hernández-Hernández, D. and Leonardi, F. and Mena, R.H. and Pardo Millán, J.C. (Eds). (2021) *Advances in Probability and Mathematical Statistics*. Progress in Probability series by Birkhäuser. [ISBN 978-3-030-85324-2]
5. Antoniano-Villalobos, I., Mena, R.H., Mendoza, M., Naranjo, L. and Nieto-Barajas, L.E. (Eds). (2019) *Selected Contributions on Statistics and Data Science in Latin America*. Springer Proceedings in Mathematics & Statistics. [ISBN 978-3-030-31551-1]
4. Mena, R.H. and Pardo, J.C. and Rivero, V. and Bravo, G.U. (Eds). (2015) *XI Symposium on Probability and Stochastic Processes*. Progress in Probability series by Birkhäuser. [ISBN 978-3-319-13983-8]
3. Hernández, D.C. and Mena, R.H. (Eds). (2013) *Volumen especial en conmemoración del Año Internacional de Estadística*. Boletín de la Sociedad Matemática Mexicana, Vol. 19, no.2 (2013). [ISSN: 2296–4495]
2. Estrada, E., Martínez, A.F., Mena, R.H. and Nieto-Barajas, L. E. (Eds) (2007) *Memorias del XXII Foro Nacional de Estadística*. [INEGI. ISBN 970-13-4692-0]
1. Contreras-Cristán, A., Domínguez-Molina, J.A., Estrada, E. and Mena, R.H. (Eds) (2005) *Memorias del XX Foro Nacional de Estadística*. [INEGI. ISBN 978-13-5055-3]

#### 8.5 » Other publications

6. Mena, R.H. (2023). Ramsés H. Mena's Contribution to the Discussion of "Martingale posterior distributions" by Edwin Fong, Chris Holmes and Stephen G. Walker. *Journal of the Royal Statistical Society-Series B*. 2023. [ISSN:1369-7412; E-ISSN:1467-9868; Impact factor (JCR): 4.488]
5. Gil-Leyva, M.F. and Mena, R.H. (2022). Discussion of "Evaluating Sensitivity to the Stick-Breaking Prior in Bayesian Nonparametrics" by R. Giordano, R. Liu, M. I. Jordan and T. Broderick. *Bayesian Analysis*. TBA, TBA. [ISSN:1931-6690; E-ISSN:1936-0975; Impact factor (JCR): 2.695]
4. Lijoi, A., Mena, R.H. and Prünster, I. (2017). Discussion of "Sparse graphs using exchangeable random measures" by F. Caron and E. Fox. *Journal of the Royal Statistical Society-Series B*. 79, 1353–1353. [ISSN:1369-7412; E-ISSN:1467-9868; Impact factor (JCR): 4.488]
3. Mena, R.H. (2014). Book Review "Principles of uncertainty by J.K Kadane (2011). Texts in Statistical Science Series, Chapman and Hall/CRC". *Journal of Classification*. Vol. 31, No. 2, p. 270-271. [ISSN:0176-4268; E-ISSN:1432-1343; Impact factor (JCR): 1.147]
2. Mena, R.H. (2003). Lenguaje de programación matricial Ox. *DATOS. Boletín de la Asociación Mexicana de Estadística*. Vol. 25

1. Mena, R.H. (2003). Un ejemplo en Ox. *DATOS. Boletín de la Asociación Mexicana de Estadística*. Vol. 26

## 9 >>> ACADEMIC VISITS

- Pontificia Universidad Católica de Chile, Chile. **Frequent visits during 2016-2023**
- Universidad de Chile, Chile. **2016**
- University of Texas at Austin, USA. **Frequent visits during 2013-2023, Sabbatical: 2017-2018**
- Hong Kong University of Science and Technology, Hong Kong, China. **2013**
- Collegio Carlo Alberto, Italy. **Sabbatical: 2011–2012, 2015, 2016**
- University of Kent, RU. **Frequent visits during 2005-2009, 2011, 2013**
- Centro de Investigación en Matemáticas (CIMAT), Mexico. **2006, 2009**
- University of Turin, Italy. **Frequent visits during 2005-2011, 2016**
- University of Bath, UK. **2004, 2014, 2016, 2018, 2019, 2020**
- University of Pavia, Italy. **2003, 2005, 2016**

## 10 >>> EDITORIAL SERVICE

### 10.1 >> Co-Editor (Co-E) or Associate Editor (AE)

- [AE] Journal of Statistical Planning and Inference. **2017–2021**
- [AE] ALEA: Latin American Journal of Probability and Mathematical Statistics. **2015–2018**
- Special Invited Editor of Bayesian Analysis for the Lindley Prize **2014–2015**
- [AE] Journal of Statistical Distributions and Applications, Springer. **2013–**
- [Co-E] Electronic Bulletin of the Bernoulli Society (E-Briefs) **2010–2011**
- [AE] Bulletin of the International Society for Bayesian Analysis (ISBA). **2004–2007**
- [AE] Boletín "DATOS" de la Asociación Mexicana de Estadística (AME). **2004–2008**

### 10.2 >> Referee for publications

- AISTATS
- Ann. Statist.
- Aust. N. Z. J. Stat.
- Bayesian Analysis
- Stoch. Environ. Res. Risk Assess.
- Bernoulli
- Biometrika
- Bol. Soc. Mat. Mexicana

- Braz. J. Probab. Stat.;
- Chilean Journal of Statistics
- Comm. Statist. Simulation Comput.
- Comm. Statist. Theory Methods
- Comput. Statist. Data Anal.
- Comput. Math. with Appl.
- Data in Brief
- EconoQuantum
- Electron. J. Stat.
- Envirometrics
- J. Comput. Graph. Stat.
- J. Amer. Statist. Assoc.
- J. Appl. Statist.
- J. Bus. Econom. Statist.
- J. Multivar. Anal.
- J. Momparametr. Stat.
- J. R. Stat. Soc. B
- J. Stat. Comput. Sim.
- J. Stat. Plan. Infer.
- R. Inter. Contamin. Ambiental
- Scand. J. Statist.
- Sankhya
- Spatial Statistics
- Statistics
- Statistics and Computing
- Statist. Probab. Lett.
- Stochastic Models
- TEST
- Technometrics
- Mathematical Reviews

### 10.3 »» *Book refereeing*

- Fondo de Cultura Económica (FCE)
- Publicaciones UNAM
- Springer

## 11 »»» ORGANIZATION OF ACADEMIC EVENTS

### 11.1 »» *Organizing Committee Member*

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| 16. 2 <sup>nd</sup> Integrative Think Thank – México (ITT-MEX).<br>CDMX, Mexico               | <b>May 2021</b> |
| 15. XV Latin American Congress of Probability and Mathematical Statistics.<br>Yucatán, Mexico | <b>Dec 2019</b> |
| 14. 1 <sup>er</sup> Integrative Think Thank – México (ITT-MEX).<br>Guanajuato, Mexico         | <b>Aug 2019</b> |
| 13. BIRS program on Bayesian nonparametric inference.<br>Oaxaca, Mexico                       | <b>Dec 2017</b> |



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12. Workshop on Air quality and health: a global problem with local challenges. **Aug 2017**  
CDMX, Mexico
  11. Symposium on inference and mathematical modeling. **Nov 2016**  
Guanajuato, Mexico
  10. France - Mexico Meeting on Data Analysis. **Nov 2016**  
CDMX, Mexico
  9. Bath-UNAM-CIMAT (BUC) series of mathematical research activities **Nov 2015 –**  
See <http://buc.cimat.mx>
  8. Advances in Bayesian nonparametric statistics **Nov 2014**  
CDMX, Mexico
  7. ISBA 2014 World Meeting. **Jul 2014**  
Cancún, Mexico
  6. XI Symposium on probability and stochastic processes. **Nov 2013**  
Guanajuato, Mexico
  5. BIRS program on " Random Measures and Measure-Valued Processes ". **Sep 2013**  
Banff, Canadá
  4. 35<sup>th</sup> Conference on Stochastic Processes and their Applications. **Jul 2011**  
Oaxaca, Mexico
  3. 3<sup>er</sup> Taller Mexicano de Estadística Bayesiana. **Jun 2011**  
Veracruz, Mexico
  2. 8<sup>th</sup> Workshop on Bayesian Nonparametrics. **Jun 2011**  
Veracruz, Mexico
  1. II Latin-American Congress on Bayesian Statistics. **Feb 2005**  
Los Cabos, Mexico

### **11.2 » Scientific/Program Committee Member**

19. 11th World Congress in Probability and Statistics. **Ago 2024**  
Bochum, Germany.
18. ISBA 2022 World Meeting. **Jun 2022**  
Montreal, Canada.
17. 13<sup>th</sup> International Conference on Bayesian Nonparametrics. **Oct 2022**  
Puerto Varas, Chile
16. 14<sup>th</sup> International Conference of the European Research Consortium for Informatics and Mathematics (ERCIM-WG) on Computing & Statistics. **Dec 2021**  
London, UK.

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| 15. XV Brazilian Meeting of Bayesian Statistics.<br>São Paulo, Brazil.   | <b>Mar 2020</b>   |
| 14. XV Latin American Congress of Probability and Mathematical Statistics.<br>Yucatán, Mexico                                    | <b>Dec 2019</b>   |
| 13. 1 <sup>er</sup> Integrative Think Thank en México (ITT-MEX).<br>Guanajuato, Mexico   | <b>Aug 2019</b>   |
| 12. BIRS program on Bayesian nonparametric inference.<br>Oaxaca, Mexico  | <b>Dic 2017</b>   |
| 11. Workshop on Air quality and health: a global problem with local challenges.<br>CDMX, Mexico                                  | <b>Aug 2017</b>   |
| 10. XXXI Foro Nacional de Estadística.<br>Texcoco, Mexico  | <b>Oct 2016</b>   |
| 9. 1 <sup>st</sup> Latin American Conference on Statistical Computing.<br>Gramado, Brazil  | <b>Jul 2016</b>   |
| 8. ISBA 2016 World Meeting.<br>Sardinia, Italy   | <b>Jun 2016</b>   |
| 7. Bath-UNAM-CIMAT (BUC) series of mathematical research activities<br>See <a href="http://buc.cimat.mx">http://buc.cimat.mx</a> | <b>Nov 2015 –</b> |
| 6. ISBA 2014 World Meeting.<br>Cancún, Mexico  | <b>Jul 2014</b>   |
| 5. Advances in Bayesian nonparametric statistics<br>CDMX, Mexico   | <b>Nov 2014</b>   |
| 4. XI Simposio de Probabilidad y Procesos Estocásticos.<br>Guanajuato, Mexico  | <b>Nov 2013</b>   |
| 3. BIRS program on " Random Measures and Measure-Valued Processes ".<br>Banff, Canadá  | <b>Sep 2013</b>   |
| 2. 3 <sup>er</sup> Taller Mexicano de Estadística Bayesiana.<br>Veracruz, Mexico   | <b>Jun 2011</b>   |
| 1. 8 <sup>th</sup> Workshop on Bayesian Nonparametrics.<br>Veracruz, Mexico  | <b>Jun 2011</b>   |

### 11.3 » *Chair [Ch] or Co-Chair [Co-Ch]*

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| 4. <b>[Co-Ch]</b> BIRS program on " Bayesian nonparametric inference ".<br>Oaxaca, Mexico | <b>Dec 2017</b> |
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3. **[Ch]** Advances in Bayesian nonparametric statistics  
CDMX, Mexico **Nov 2014**
  2. **[Co-Ch]** BIRS program on "Random Measures and Measure-Valued Processes".  
Banff, Canada **Sep 2013**
  1. **[Co-Ch]** 8<sup>th</sup> Workshop on Bayesian Nonparametrics.  
Veracruz, Mexico **Jun 2011**

## 12 >>> TALKS IN CONFERENCES AND SEMINARS

### 12.1 >> *Invited talks at national and international events*

59. 15<sup>th</sup> International Conference of the European Research Consortium for Informatics and Mathematics (ERCIM-WG) on Computing & Statistics. Berlin, Germany. **2023**
58. 10<sup>th</sup> International Congress on Industrial and Applied Mathematics (ICIAM), Tokyo, Japan. **2023**
57. 13<sup>th</sup> International Conference on Bayesian Nonparametrics, Puerto Varas, Chile. **2022**
56. The labour market, education and digitalisation, IIEc-UNAM, CDMX, Mexico. **2022**
55. 14<sup>th</sup> International Conference on Objective Bayes Methodology, Santa Cruz-CA, USA. **2022**
54. 1st Meeting of Data Science Alumnae, CDMX, Mexico. **2022**
53. 14<sup>th</sup> International Conference of the European Research Consortium for Informatics and Mathematics (ERCIM-WG) on Computing & Statistics. London, UK. **2021**
52. Eastern Asia Chapter of the International Society for Bayesian Analysis (EAC-ISBA). Virtual event. **2021**
51. VI Latin-American Congress of Mathematics (CLAM). Virtual event. **2021**
50. ISBA 2021 World Meeting. Virtual event. **2021**
49. 4<sup>th</sup> International Conference on Econometrics and Statistics (EcoSta). Hong Kong. **2021**
48. 13<sup>th</sup> International Conference of the European Research Consortium for Informatics and Mathematics (ERCIM-WG) on Computing & Statistics. London, UK. **2020**
47. 45<sup>th</sup> University of Arkansas Spring Lecture Series: Discrete Random Structures in Bayesian Nonparametrics. Arkansas, USA. [Online due to COVID-19] **2020**
46. 12<sup>th</sup> International Conference of the European Research Consortium for Informatics

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- and Mathematics (ERCIM-WG) on Computing & Statistics. London, UK. **2019**
45. XV Latin American Congress of Probability and Mathematical Statistics, Merida, Mexico. **2019**
44. 2nd National Workshop on Biology and Probability, Cuernavaca, Mexico. **2019**
43. 1<sup>er</sup> Taller Franco-Mexicano de Inteligencia Artificial, IIMAS-CDMX, Mexico. **2019**
42. MiDaS 2019 workshop, Viña del Mar, Chile. **2019**
41. 9<sup>th</sup> Integrative Think Tank at University of Bath, Bath, UK. **2019**
40. 23<sup>rd</sup> Simpósio Nacional de Probabilidade e Estatística (SINAPE), São Pedro, Brazil. **2018**
39. Symposium on Computational Methods, IIMAS-CDMX, Mexico. **2018**
38. Joint Statistical Meeting JSM 2018, Vancouver, Canada. **2018**
37. ISBA 2018 World Meeting. Edinburgh, UK. **2018**
36. 4<sup>th</sup> Conference of the International Society for Nonparametric Statistics, Salerno, Italy. **2018**
35. 12<sup>th</sup> International Workshop on Objective Bayes Methodology, Austin, USA. **2017**
34. V Latin American Meeting on Bayesian Statistics. Guanajuato. Mexico. **2017**
33. Joint Statistical Meeting. Chicago. USA. **2016**
32. ISBA 2016 World Meeting. Sardinia, Italy. **2016**
31. 8<sup>th</sup> International Conference of the European Research Consortium for Informatics and Mathematics (ERCIM-WG) on Computing & Statistics. London, UK **2015**
30. 1<sup>st</sup> National Meeting of Young Researchers in Mathematics (ENJIM), Mexico **2015**
29. XLVIII National Congress of the Mexican Mathematical Society, Hermosillo, Mexico **2015**
28. XII Latin American Congress of Probability and Mathematical Statistics, Cartagena de Indias, Colombia. **2014**
27. III Joint Meeting of the Mexican and Spanish Mathematical Societies. Zacatecas, Mexico. **2014**
26. XLVI National Congress of the Mexican Mathematical Society, Merida, Mexico. **2013**
25. Workshop on Multivariate Analysis and Random Matrices, Guanajuato, Mexico. **2013**
24. 59<sup>th</sup> World Statistical Congress. Hong Kong, China. **2013**

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23. 9<sup>th</sup> Conference on Bayesian Nonparametrics. Amsterdam, The Netherlands. **2013**
  22. ISBA Regional Meeting & Inter. Conf. on Bayesian Theory and Applications. Varanasi, India. **2013**
  21. Joint Statistical Meeting. San Diego. USA. **2012**
  20. ISBA 2012 World Meeting. Kyoto, Japan. **2012**
  19. II Joint Meeting of the Mexican and Spanish Mathematical Societies. Málaga, Spain. **2012**
  18. 4<sup>th</sup> International Conference of the European Research Consortium for Informatics and Mathematics (ERCIM-WG) on Computing & Statistics. London, UK. **2011**
  17. III Latin American Meeting on Bayesian Statistics & 37<sup>th</sup> National Meeting. Pucón, Chile. **2011**
  16. Research Program on Bayesian Nonparametrics. Veracruz, Mexico. **2011**
  15. Risk Analysis in Economics and Finance, Guanajuato, Mexico. **2011**
  14. 1<sup>st</sup> First North American Meeting on Industrial and Applied Mathematics. Huatulco, Mexico. **2010**
  13. ISBA 2010 World Meeting. Benidorm, Spain. **2010**
  12. 10<sup>th</sup> Symposium of Probability and Stochastic Processes. Guanajuato, Mexico. **2009**
  11. National Congress of Probability and Statistics 2008. Villahermosa, Mexico. **2008**
  10. XL National Congress of the Mexican Mathematical Society. Monterrey, Mexico. **2007**
  9. Workshop on Construction and Properties of Bayesian Nonparametric Regression Models. Isaac Newton Institute, Cambridge, UK. **2007**
  8. 9<sup>th</sup> Symposium of Probability and Stochastic Processes. Guanajuato, Mexico. **2006**
  7. XXI National Statistical Meeting. Acapulco, Mexico. **2006**
  6. 5<sup>th</sup> Workshop on Bayesian Nonparametrics. Jeju, South Korea. **2006**
  5. 2<sup>nd</sup> Latin American Congress on Bayesian Statistics. Los Cabos BC, Mexico. **2005**
  4. Joint Statistical Meeting 2005. Minneapolis, USA. **2005**
  3. 4<sup>th</sup> Workshop on Bayesian Inference in Stochastic Processes. Varenna, Italy. **2005**
  2. 8<sup>th</sup> Symposium of Probability and Stochastic Processes. Puebla, Mexico. **2004**

1. ISBA 2004 World Meeting. Viña del Mar, Chile. 2004

### 12.2 » *Invited courses at national or international events*

6. XI School of Mathematics of Latin America and the Caribbean (EMALCA). BUAP, Puebla. 2015
5. 4th Statistical Pattern Recognition. CIMAT, Guanajuato. 2013
4. XII Latin American Congress on Probability and Mathematical Statistics. Valparaiso, Chile. 2012
3. National Congress of Probability and Statistics 2010. Distrito Federal, Mexico. 2010
2. 10<sup>th</sup> World meeting of the International Society for Bayesian Analysis. Benidorm, Spain. 2010
1. 10<sup>th</sup> Symposium of Probability and Stochastic Processes. Guanajuato, Mexico. 2010

### 12.3 » *Other invited talks*

4. Commemorative symposium for the International Year of Statistics, CIMAT, Guanajuato, Mexico. 2013
3. Orientation Talks about the Bachelor of Mathematics, FC-UNAM, Mexico. 2013
2. Statistics Day, IIMAS-UNAM, Mexico. 2007
1. Bimonthly Conference of the Mexican Statistical Association, Mexico. 2004

### 12.4 » *Invited talks at institutional seminars*

- University of Toronto, Department of Statistical Sciences, Canada. 2023
- Texas A&M Statistics Department, USA. 2022
- Florida State University, USA. [Online due to COVID-19] 2021
- Universidad Autónoma de Aguascalientes, Mexico. [Online due to COVID-19] 2021
- Universidade Federal de Minas Gerais, Brasil. [Online due to COVID-19] 2020
- University of California at Santa Cruz, USA. 2018
- Stanford University, USA. 2018
- University of California at Irvine, USA. 2018
- Pontificia Universidad Católica de Chile, Chile. 2016, 2023
- Instituto de Física – UNAM, Mexico. 2016
- University of Texas at Austin, USA. 2016
- Departamento de Probabilidad y Actuaría ITAM, Distrito Federal, Mexico. 2015, 2006, 2004

Universidad de Bath, Bath, UK.	2018, 2017, 2014, 2003, 2002, 2001
DTU-Denmark, Copenhagen, Denmark.	2014
CIMAT-Guanajuato, Mexico.	2015, 2013, 2009, 2008
IIMAS-UNAM, Distrito Federal, Mexico.	2012, 2010, 2007
Universidad de Padova, Padova, Italy.	2012
University College London (GATSBY-UCL), Londres, Reino Unido.	2012
Collegio Carlo Alberto, Turin, Italy.	2011
IMATE-UNAM, Distrito Federal, Mexico.	2011
Facultad de Ciencias – UNAM, Distrito Federal, Mexico.	2011, 2004
Politecnico di Torino, Turin, Italy.	2009
Banco Nacional de México, Distrito Federal, Mexico.	2008
Universidad Bocconi, Milan, Italy.	2007
CNR-IMATI, Milan, Italy.	2007
Università degli Studi di Pavia, Pavia, Italy.	2005

### 12.5 » *Contributed talks*

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|---|------|
| 1. XXV National Statistical Meeting, Cuernavaca, Mexico | 2010 |
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### 12.6 » *Contributed posters*

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|---|------|
| 2. 10 <sup>th</sup> Conference on Bayesian Nonparametrics. Raleigh. USA                   | 2015 |
| 1. 7 <sup>th</sup> Valencia International Meeting on Bayesian Statistics. Tenerife. Spain | 2002 |

### 12.7 » *TV or radio interviews*

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|---|------|
| 2. On live radio interview at " PRISMA " Radio UNAM.                        | 2018 |
| 1. On live TV interview at " Creadores Universitarios ", Foro-TV, Televisa. | 2016 |

### 12.8 » *Public Lectures*

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|---|------|
| 3. DGAOE-UNAM. Webinar: To meet tomorrow, Mexico. [Online due to COVID-19]    | 2020 |
| 2. UNAM Foundation. Forum 2020, Mexico. [Online due to COVID-19]              | 2020 |
| 1. University of Bath, Institute for Mathematical Innovation (IMI), Bath, UK. | 2018 |

## 13 ►►► PROJECTS

### 13.1 ►► *Principal investigator in academic projects*

- PAPIIT IT100524: Simplified methods for Bayesian nonparametrics inference 2024–2026
- PAPIIT IG100221: Stochastic processes in Bayesian nonparametrics inference 2021–2023  
(Co-PI with Carlos Díaz Avalos, IIMAS-UNAM)
- GCRF: "Environmental shock resilience in Mexico: data, models and policy" 2020–2021  
(Co-PI with Julian Padgett, U. of Bath)
- CONTEX 2018-9A: *Bayesian nonparametric time-dependent models* 2018–2019  
(Co-PI with Stephen G. Walker, UT-Austin)
- CONACyT 241195: Bayesian nonparametric statistics for complex data 2015–2018
- CONACyT 131179: Random partitions in statistics 2011–2014
- PAPIIT IN100411: Dependent random distributions 2011-2014
- CONACyT 50160: Random distributions and their applications 2007-2010

### 13.2 ►► *Principal investigator in Government funded projects*

- Treasury and Public Credit Ministry (SHCP) and National Bank for Public Works and Services of Mexico (Banobras) 2015–2017  
Project: Upgrade system and statistical module for the ,  
National Disasters Fund FONDEN.
- National Bonding and Insurance Commission (CNSF) 2012–2018  
Project: Specialised training program for solvency of insurance companies  
(Co-PI with Silvia Ruiz-Velasco Acosta, IIMAS-UNAM)
- Mexico City Attorney General's Office (PGJDF) 2011–2012  
Project: Trends and forecasting of criminal incidence in Mexico City.  
(Co-PI with Mogens Bladt and Carlos Díaz Avalos, IIMAS-UNAM)

## 14 ►►► SERVICE AND/OR PARTICIPATION IN COMMITTEES

### 14.1 ►► *Evaluation committees in scientific agencies*

- Agence Nationale De La Recherche (ANR–France) 2017  
–Research project proposals reviewer.
- Ministero dell'Istruzione, dell'Università e della Ricerca (MIUR–Italy) 2016, 2017  
–Research project proposals reviewer.
- Certification Agency College of Engineers of Chile 2016  
–Educational programs certification.
- CONICYT/FONDECYT–Chile 2023, 2019, 2014, 2013, 2012  
–Research project proposals reviewer.



- Shota Rustaveli National Science Foundation (SRNSF–Georgia). 2013, 2011, 2009  
–Research project proposals reviewer.
- CONACyT–Mexico. 2017  
–Evaluator for SNI Transversal Commission of Technology. yearly 2009-2023  
–Research project proposals reviewer. 2008  
–Member of the evaluation committee for the national quality postgraduate program.
- FONCyT–Argentina 2009  
–Research project proposals reviewer.
- Universidad Autónoma del Estado de México. (UAEM–México) 2007  
–Research project proposals reviewer.

#### 14.2 »» *Participation in academic committees at UNAM*

- Internal Board at IIMAS 2012–2016; 2018–2020; 2020–2024  
–IIMAS representative before the CTIC; Chair of Department PyE; Director
- Technical Council of the Scientific Research Coordination 2012–2016, 2020–2024  
–IIMAS Representative; IIMAS Director
- Actuarial Sciences undergraduate program (FC-UNAM). 2005–2012  
–Member of the academic board for graduation

#### 14.3 »» *Participation in other committees*

- Comexus Fulbright–García Robles 2020, 2022  
–Scholarship selection committee: scholars, professors and researchers
- AFIRME-UNAM Foundation award 2021, 2023  
–Member of the evaluation committee

### 15 »»» OTHER INFORMATION

#### 15.1 »» *Affiliation to academic societies*

- Mexican Statistical Association
- Bernoulli Society
- International Society for Bayesian Analysis
- Institute of Mathematical Statistics
- The Royal Statistical Society

#### 15.2 »» *Languages*

- Spanish
- English
- Italian