

Ramsés Humberto Mena Chávez

Curriculum Vitae

February 10, 2022

Instituto de Investigaciones en Matemáticas
Aplicadas y en Sistemas

Universidad Nacional Autónoma de México

Contents

1	GENERAL INFORMATION	4
2	EDUCATION	4
3	ACADEMIC APPOINTMENTS	5
3.1	<i>Present</i>	5
3.2	<i>Past</i>	5
4	NON-ACADEMIC EXPERIENCE	5
5	SERVICE AND APPOINTMENTS IN ACADEMIC SOCIETIES	6
5.1	<i>International Society for Bayesian Analysis (ISBA)</i>	6
5.2	<i>Bernoulli Society for Mathematical Probability and Statistics</i>	6
5.3	<i>Mexican Statistical Association (AME)</i>	6
6	HONORS AND AWARDS	7
7	TEACHING ACTIVITIES AND STUDENTS	8
7.1	<i>Courses</i>	8
7.1.1	Postgraduate level at UNAM (FC, IM, IIMAS)	8
7.1.2	Postgraduate courses outside UNAM	8
7.1.3	Undergraduate degree programs at the Faculty of Sciences at UNAM	8
7.1.4	Undergraduate programs outside UNAM	8
7.2	<i>Supervised students</i>	9
7.2.1	Postdoctoral positions	9
7.2.2	PhD programs	9
7.2.3	MSc programs	10
7.2.4	Undergraduate programs	11
7.3	<i>Social work activities supervision</i>	12
7.4	<i>Tutorial and/or exam committee member</i>	13
7.4.1	PhD exams committee	13
7.4.2	Doctoral candidate exams committee	13
7.4.3	Tutorial committee member for PhD students	14
7.4.4	MSc tutor	14
7.4.5	MSc programs committee member	15
7.4.6	Undergraduate programs committee member	15
7.4.7	MPhil in statistics program committee member	16
8	PUBLICATIONS	16
8.1	<i>Published and/or accepted articles in indexed journals</i>	16
8.2	<i>Book chapters</i>	20
8.3	<i>Proceedings</i>	20
8.4	<i>Books and/or Edited Volumes</i>	21
8.5	<i>Other publications</i>	21

9	ACADEMIC VISITS	21
10	EDITORIAL SERVICE	22
10.1	<i>Co-Editor (Co-E) or Associate Editor (AE)</i>	22
10.2	<i>Referee for publications</i>	22
10.3	<i>Book referring</i>	23
11	ORGANIZATION OF ACADEMIC EVENTS	23
11.1	<i>Organizing Committee Member</i>	23
11.2	<i>Scientific Committee Member</i>	24
11.3	<i>Chair [Ch] or Co-Chair [Co-Ch]</i>	25
12	TALKS IN CONFERENCES AND SEMINARS	26
12.1	<i>Invited talks at national and international events</i>	26
12.2	<i>Invited courses at national and international events</i>	28
12.3	<i>Other invited talks</i>	28
12.4	<i>Invited talks at institutional seminars</i>	29
12.5	<i>Contributed talks</i>	29
12.6	<i>Contributed posters</i>	30
12.7	<i>TV or radio interviews</i>	30
12.8	<i>Public Lectures</i>	30
13	PROJECTS	30
13.1	<i>Principal investigator in academic projects</i>	30
13.2	<i>Principal investigator in Government funded projects</i>	30
14	SERVICE AND/OR PARTICIPATION IN COMMITTEES	31
14.1	<i>Evaluation committees in scientific agencies</i>	31
14.2	<i>Participation in academic committees at UNAM</i>	31
14.3	<i>Participation in other committees</i>	31
15	OTHER INFORMATION	32
15.1	<i>Affiliation to academic societies</i>	32
15.2	<i>Languages</i>	32

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> http://www.dpye.iimas.unam.mx/ramses/ <i>Email.</i> ramses@sigma.iimas.unam.mx <i>Telephone.</i> +525556223583
Bibliometrics:	<i>Google Scholar:</i> ramsesmena <i>Scopus ID:</i> 10040007900 <i>ORCID ID:</i> https://orcid.org/0000-0001-9608-8059

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

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)*

- **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**
 in 2013 within the category of mathematics. DGAPA-UNAM. 2014
- **Acknowledgement for being amongst most cited academics at UNAM**
 in 2012 within the category of mathematics. DGAPA-UNAM. 2013
- **UNAM Assessment Bonus Program for Academic Personnel**

 - PRIDE level " D " (highest) 2012–2021
 - 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
- **CONACyT Mexican Research System Ranking (SNI):**

 - 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)

- Simulation and inference of Markovian processes 2017, 2019, 2021
- Industry problem solutions 2020
- Bayesian nonparametric statistics 2016, 2018, 2019, 2020, 2022
- 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

- *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–
Assistant Professor at the Tecnológico de Monterrey, CDMX, Mexico.
6. **Jaime Eduardo Martínez Sánchez** 2019–2020
Assistant Professor at the Tecnológico de Monterrey, CDMX, Mexico.
5. **José Javier Quinlan Binelli** 2017–2019
Postdoctoral position at PUC, Santiago, Chile.
4. **Claudia Andrea Wehrhahn Cortes** 2016–2017
Assistant Professor at UCSC, California, US.
3. **Luis Gutiérrez Inostroza** 2015–2016
Assistant Professor at PUC, Santiago, Chile.
2. **Luz Judith Rodríguez 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–
8. **Pablo Jorge Hernández Hernández.** (Co-supervision) Mathematical Sciences UNAM 2017–
PhD Candidate since February 2020
7. **María Fernanda Gil Leyva Villa.** Mathematical Sciences UNAM *Awarded: Oct 2021*
(with Distinction)
Postdoctoral position at Università Bocconi.
6. **Michelle Anzarut Chacalo.** Mathematical Sciences UNAM *Awarded: Nov 2017*
Postdoctoral position at ITAM.

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5. **Freddy Palma Mancilla.** Mathematical Sciences UNAM
Tenure track position at the UDLAP, Mexico and member of SNI. *Awarded: Sep 2017*
4. **Asael F. Martínez Martínez.** Mathematical Sciences UNAM
Assistant Professor at UAM-I. *Awarded: Feb 2016*
3. **Arrigo Coen Coria.** Mathematical Sciences UNAM
Postdoctoral position at
University of Wisconsin-Madison and member of SNI. *Awarded: Nov 2015*
2. **Consuelo Rubina Nava.** (Co-supervision) at the University of Turin, Italy.
Assistant Professor at the Università della Valle D'Aosta, Italy. *Awarded: Feb 2014*
1. **Karla E. Medina Díaz.** (Co-supervision) at the University of Turin, Italy.
Banorte Generali Insurance. *Awarded: Mar 2011*
- 7.2.3 ▶ MSc programs**
16. **Aideé Violeta Enroth Ortiz** *Awarded: Feb 2022*
MSc Mathematical Sciences UNAM. (*With honors*)
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
PhD Student at the University of Kent, United Kingdom.
12. **María Fernanda Gil Leyva Villa** *Awarded: Sep 2016*
MSc Mathematical Sciences UNAM
PhD Student at UNAM, Mexico.
11. **Iván Darío Peñaloza Rojas** *Awarded: Apr 2016*
MSc Mathematical Sciences UNAM
PhD Student at UNAM, 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**
MSc Mathematical Sciences UNAM
Analyst and researcher at CFenergía, Mexico.

Awarded: Mar 2012
 7. **Adriana Roldán Rodríguez**
MSc Mathematical Sciences UNAM
Analyst and researcher at CFenergía, Mexico.

Awarded: Jan 2012
 6. **Arrigo Coen Coria**
MSc Mathematical Sciences UNAM
Postdoctoral position at
University of Wisconsin-Madison y miembro del SNI.

Awarded: Aug 2011
 5. **María D. Lomelí García**
MSc Mathematical Sciences UNAM
Researcher at Babylon Health, London, United Kingdom.

Awarded: Aug 2011
 4. **Asael F. Martínez Martínez**
MSc Mathematical Sciences UNAM.
(1st place, "*Francisco Aranda 2012*")
Tenure track Assistant Professor at UAM-I.

Awarded: Feb 2011
 3. **Isadora Antoniano Villalobos**
MSc Mathematical Sciences UNAM.
(1st place, "*Francisco Aranda 2008*")
Associate Professor at Ca' Foscari University of Venice, Italy.

Awarded: Jun 2008
 2. **Miguel A. Polo Vuelvas**
MSc Applied and Industrial Mathematical Sciences UAM-I.
(Co-direction)

Awarded: May 2007
 1. **Karla E. Medina Díaz**
MSc Mathematical Sciences UNAM.
Banorte Generali Insurance.

Awarded: Dec 2006
- 7.2.4 ▶ Undergraduate programs**
14. **Ana Eréndira Torres Ramírez**
Actuarial Sciences, FC-UNAM, Mexico.

Awarded: Dec 2020
 13. **Carlos Garza Bracamontes**
Actuarial Sciences, FC-UNAM, Mexico.

Awarded: Jan 2020

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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 work activities supervision

- | | | | |
|--------------------------|----------------|-----------------------------|----------------|
| 30. Jorge Mendoza | 2021-I/2021-II | 25. Samantha Sanchez | 2021-I/2021-II |
| 29. Ramiro Bravo | 2021-I/2021-II | 24. David Guzmán | 2021-I/2021-II |
| 28. Luis Abaunza | 2021-I/2021-II | 23. Brenda Ramírez | 2021-I/2021-II |
| 27. Erika López | 2021-I/2021-II | 22. Larissa Arreola | 2020-II/2021-I |
| 26. Karina Romero | 2021-I/2021-II | 21. León Rivera | 2020-II/2021-I |

20. Paola Pérez	2020-II/2021-I	10. Luisa Zepeda	2019-II/2020-I
19. Ana Ochoa	2020-II/2021-I	9. Rodrigo Cariño	2019-I/2019-II
18. Luis Celis	2020-II/2021-I	8. Rodrigo Flores	2019-I/2019-II
17. Arely Munguía	2020-II/2021-I	7. Uziel Vera	2019-I/2019-II
16. Rodrigo Nava	2020-I/2020-II	6. Jorge Miranda	2019-I/2019-II
15. Vanessa Soulé	2020-I/2020-II	5. Bernardo Flores	2017-II/2018-I
14. Gilberto Rodríguez	2020-I/2020-II	4. Ana Vázquez	2017-II/2018-I
13. Ana Torres	2020-I/2020-II	3. Silvia Méndez	2017-I/2017-II
12. Luis Conde	2020-I/2020-II	2. Enrique Reyes	2017-I/2017-II
11. Paola Escobar	2019-II/2020-I	1. Fernando Corchado	2017-I/2017-II

7.4 » Tutorial and/or exam committee member [91]

The lists below exclude student supervised.

7.4.1 » PhD exams committee

5. Guadalupe Eunice Campirán García	2018
Diploma: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)	
4. Fernando Baltazar Larios	2011
Diploma: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)	
3. Bernardo Nipoti	2011
Diploma: <i>PhD in Mathematics and Statistics - University of Pavia, Pavia, Italia</i>	
2. José Luis A. Pérez Garmendia	2009
Diploma: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)	
1. Nelson O. Muriel Torrero	2009
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	2019
7. Iván Darío Peñaloza Rojas	2019
6. Fernando Daniel Pérez Arriaga	2015
5. Juan Martín Barrios	2012

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4. Guadalupe Eunice Campirán García 2011
 3. Abel Castro Mesa 2009
 2. Fernando Baltazar Larios 2009
 1. Margarita Tetlamatzi Montiel 2008

7.4.3 ▶ Tutorial committee member for PhD students

10. Iván Darío Peñaloza Rojas 2018-2021
Diploma sought: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)
9. Marisol Martínez Ramos 2018-2020
Diploma sought: PhD program in Ecology and Sustainable Development, ECOSUR.
8. Rogelio Oscar Caballero Pérez 2017-2018
Diploma sought: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)
7. Lizbeth Peñaloza Velasco 2016
Diploma sought: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)
6. Angtuncio Hernandez Osvaldo 2013-2019
Diploma sought: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)
5. Fernando Daniel Pérez Arriaga 2013-2016
Diploma sought: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)
4. Juan Martín Barrios 2010-2013
Diploma sought: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)
3. Guadalupe E. Campirán García 2007-2018
Diploma sought: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)
2. Miguel Angel Sanchez Barquín 2010
Diploma sought: PhD program in Mathematical Sciences at UNAM (FC, IM, IIMAS)
1. Georgia Hadjicharalambous 2006-2010
Diploma sought: *Dottorato di Ricerca in Economia*, University of Turin, Italy.

7.4.4 ▶ MSc tutor

- | | | | |
|----------------------------------|------|--------------------------------------------|------|
| 21. Humberto Velázquez Rodríguez | 2021 | 15. José A. Perrusquia Cortes | 2015 |
| 20. Eric Martínez Maldonado | 2020 | 14. Alma R. Bustamante García | 2014 |
| 19. Katherine Arias Sanshez | 2020 | 13. Edwin G. Maldonado Ramos | 2013 |
| 18. Aidée V. Enroth Ortiz | 2020 | 12. Leticia Rodríguez de San Miguel Lupián | 2011 |
| 17. Bernardo Flores López | 2019 | 11. Samanta P. Saavedra Cortés | 2010 |
| 16. Francisco Paz Cendejas | 2018 | 10. Fernando D. Perez Arriaga | 2010 |

9. Arrigo Coen Coria	2009	4. David J. Santana Cobian	2007
8. Laura N. Liljehult León	2009	3. Sergio U. Andraca Castillo	2007
7. Victor A. Anaya Sánchez	2009	2. Karol A. Rosen Esquivel	2006
6. Jorge A. Sandoval de la Rosa	2008	1. Karla E. Medina Díaz	2005
5. Berenice Becerra Ortega	2007		

7.4.5 ▶ MSc programs committee member

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

7.4.6 ▶ Undergraduate programs committee member

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

1. Roberta Betanzo Sota 2005

7.4.7 ▶ MPhil in statistics program committee member

2. Valentina Jiménez Franco 2007 1. Fernando Pérez Márquez 2007

8 ▶▶ PUBLICATIONS [64]

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

44. Gil-Leyva, M.F. and Mena, R.H. (2022). Stick-breaking processes with exchangeable length variables. *Journal of the American Statistical Association*, In press.
[ISSN:0162-1459; E-ISSN:1537-274X; Impact factor (JCR): 5.033]
43. Ayala, D., Jofré, L., Gutiérrez, L. and Mena R.H. (2022). On a Dirichlet process mixture representation of phase-type distributions. *Bayesian Analysis*. In press.
[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]

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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 exchanegable claims processes. *Journal of Statistical Planning and Inference*. 166, 102–115.
[ISSN:0378-3758; Impact factor (JCR): 1.111]

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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.
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 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]
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[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

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

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. 2016, 2017, 2018, 2019
- Universidad de Chile, Chile. 2016

- University of Texas at Austin, USA. **Frequent visits during 2013-2021, 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. **Visitas frecuentes durante 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. Multivar. Anal.
- J. Mopparametr. 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 referring*

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

11 »» ORGANIZATION OF ACADEMIC EVENTS

11.1 » *Organizing Committee Member*

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|-----------------------------------------------------------------------------------------------|-----------------|
| 16. 2 nd Integrative Think Thank – México (ITT-MEX).
CDMX, Mexico | May 2021 |
| 15. XV Latin American Congress of Probability and Mathematical Statistics.
Yucatán, Mexico | Dec 2019 |
| 14. 1 ^{er} Integrative Think Thank – México (ITT-MEX).
Guanajuato, Mexico | Aug 2019 |
| 13. BIRS program on Bayesian nonparametric inference.
Oaxaca, Mexico | Dec 2017 |
| 12. Taller Calidad del aire y salud: un problema global con retos locales.
CDMX, Mexico | Aug 2017 |
| 11. Simposio de Inferencia y Modelación Estadística.
Guanajuato, Mexico | Nov 2016 |
| 10. France - Mexico Meeting on Data Analysis.
CDMX, Mexico | Nov 2016 |

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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 Simposio de Probabilidad y Procesos Estocásticos. **Nov 2013**
Guanajuato, Mexico
 5. BIRS program on " Random Measures and Measure-Valued Processes ". **Sep 2013**
Banff, Canadá
 4. 35th Conference on Stochastic Processes and their Applications. **Jul 2011**
Oaxaca, Mexico
 3. 3^{er} Taller Mexicano de Estadística Bayesiana. **Jun 2011**
Veracruz, Mexico
 2. 8th Workshop on Bayesian Nonparametrics. **Jun 2011**
Veracruz, Mexico
 1. II Congreso Latinoamericano de Estadística Bayesiana. **Feb 2005**
Los Cabos, Mexico

11.2 » Scientific Committee Member

18. ISBA 2022 World Meeting. **Jun 2022**
Montreal, Canada.
17. 13th International Conference on Bayesian Nonparametrics. **Oct 2022**
Puerto Varas, Chile
16. 14th International Conference of the European Research Consortium for Informatics and Mathematics (ERCIM-WG) on Computing & Statistics. **Dec 2021**
London, UK.
15. XV Brazilian Meeting of Bayesian Statistics. **Mar 2020**
São Paulo, Brazil.
14. XV Latin American Congress of Probability and Mathematical Statistics. **Dec 2019**
Yucatán, Mexico
13. 1^{er} Integrative Think Thank en México (ITT-MEX). **Aug 2019**
Guanajuato, Mexico
12. BIRS program on Bayesian nonparametric inference. **Dic 2017**
Oaxaca, Mexico

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11. Taller Calidad del aire y salud: un problema global con retos locales. **Aug 2017**
CDMX, Mexico
 10. XXXI Foro Nacional de Estadística. **Oct 2016**
Texcoco, Mexico
 9. 1st Latin American Conference on Statistical Computing. **Jul 2016**
Gramado, Brazil
 8. ISBA 2016 World Meeting. **Jun 2016**
Sardinia, Italy
 7. Bath-UNAM-CIMAT (BUC) series of mathematical research activities **Nov 2015 –**
See <http://buc.cimat.mx>
 6. ISBA 2014 World Meeting. **Jul 2014**
Cancún, Mexico
 5. Advances in Bayesian nonparametric statistics **Nov 2014**
CDMX, Mexico
 4. XI Simposio de Probabilidad y Procesos Estocásticos. **Nov 2013**
Guanajuato, Mexico
 3. BIRS program on "Random Measures and Measure-Valued Processes". **Sep 2013**
Banff, Canadá
 2. 3^{er} Taller Mexicano de Estadística Bayesiana. **Jun 2011**
Veracruz, Mexico
 1. 8th Workshop on Bayesian Nonparametrics. **Jun 2011**
Veracruz, Mexico

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

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

12 »» TALKS IN CONFERENCES AND SEMINARS

12.1 »» *Invited talks at national and international events*

53. 14th 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) 2021. Virtual event. **2021**
51. VI Congreso Latinoamericano de Matemáticos (CLAM). Virtual event. **2021**
50. ISBA 2021 World Meeting. Virtual event. **2021**
49. 4th International Conference on Econometrics and Statistics (EcoSta). Hong Kong. **2021**
48. 13th International Conference of the European Research Consortium for Informatics and Mathematics (ERCIM-WG) on Computing & Statistics. London, UK. **2020**
47. 45th University of Arkansas Spring Lecture Series: Discrete Random Structures in Bayesian Nonparametrics. Arkansas, USA. [Online due to COVID-19] **2020**
46. 12th International Conference of the European Research Consortium for Informatics and Mathematics (ERCIM-WG) on Computing & Statistics. London, UK. **2019**
45. XV Latin American Congress of Probability and Mathematical Statistics, Merida, Mexico. **2019**
44. 2do Taller Nacional de Biología y Probabilidad, Cuernavaca, Mexico. **2019**
43. 1^{er} Taller Franco-Mexicano de Inteligencia Artificial, IIMAS-CDMX, Mexico. **2019**
42. MiDaS 2019 workshop, Viña del Mar, Chile. **2019**
41. 9th Integrative Think Tank at University of Bath, Bath, UK. **2019**
40. 23rd Simpósio Nacional de Probabilidade e Estatística (SINAPE), São Pedro, Brazil. **2018**
39. Simposio de Computación, IIMAS-CDMX, Mexico. **2018**
38. Joint Statistical Meeting JSM 2018, Vancouver, Canada. **2018**
37. ISBA 2018 World Meeting. Edinburgh, UK. **2018**
36. 4th Conference of the International Society for Nonparametric Statistics, Salerno, Italy. **2018**
35. 12th International Workshop on Objective Bayes Methodology, Austin, USA. **2017**

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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. 8th International Conference of the European Research Consortium for Informatics and Mathematics (ERCIM-WG) on Computing & Statistics. London, UK **2015**
 30. 1st Encuentro Nacional de Jóvenes Investigadores en Matemáticas (ENJIM), Mexico **2015**
 29. XLVIII Congreso Nacional de la Sociedad Matemática Mexicana, Hermosillo, Mexico **2015**
 28. XII Congreso Latinoamericano de Probabilidad y Estadística Matemática, Cartagena de Indias, Colombia. **2014**
 27. III Reunión Conjunta SMM-Real Sociedad Matemática Española. Zacatecas, Mexico. **2014**
 26. XLVI Congreso Nacional de la Sociedad Matemática Mexicana, Merida, Mexico. **2013**
 25. Workshop on Multivariate Analysis and Random Matrices, Guanajuato, Mexico. **2013**
 24. 59th World Statistical Congress. Hong Kong, China. **2013**
 23. 9th Conference on Bayesian Nonparametrics. Amsterdam, The Netherlands. **2013**
 22. ISBA Regional Meeting & Inter. Conf. on Bayesian Theory and Applications. Varanasi, India. **2013**
 21. Join Statistical Meeting. San Diego. USA. **2012**
 20. ISBA 2012 World Meeting. Kyoto, Japan. **2012**
 19. II Reunión Conjunta SMM-Real Sociedad Matemática Española. Málaga, Spain. **2012**
 18. 4th 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 & 37th 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. 1st First North American Meeting on Industrial and Applied Mathematics. Huatulco, Mexico. **2010**

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13. ISBA 2010 World Meeting. Benidorm, Spain. **2010**
 12. 10th Symposium of Probability and Stochastic Processes. Guanajuato, Mexico. **2009**
 11. Congreso Nacional de Probabilidad y Estadística 2008. Villahermosa, Mexico. **2008**
 10. XL Congreso Nacional de la Sociedad Matemática Mexicana. Monterrey, Mexico. **2007**
 9. Workshop on Construction and Properties of Bayesian Nonparametric Regression Models. Isaac Newton Institute, Cambridge, UK. **2007**
 8. 9th Symposium of Probability and Stochastic Processes. Guanajuato, Mexico. **2006**
 7. XXI Foro Nacional de Estadística. Acapulco, Mexico. **2006**
 6. 5th Workshop on Bayesian Nonparametrics. Jeju, South Korea. **2006**
 5. 2nd Latin American Congress on Bayesian Statistics. Los Cabos BC, Mexico. **2005**
 4. Joint Statistical Meeting 2005. Minneapolis, USA. **2005**
 3. 4th Workshop on Bayesian Inference in Stochastic Processes. Varenna, Italy. **2005**
 2. 8th 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 and international events*

6. XI Escuela de Matemáticas de América Latina y el Caribe (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. Congreso Nacional de Probabilidad y Estadística 2010. Distrito Federal, Mexico. **2010**
2. 10th World meeting of the International Society for Bayesian Analysis. Benidorm, Spain. **2010**
1. 10th Symposium of Probability and Stochastic Processes. Guanajuato, Mexico. **2010**

12.3 »» *Other invited talks*

4. Coloquio conmemorativo del Año Internacional de Estadística en el CIMAT, Guanajuato, Mexico. **2013**
3. Pláticas de Orientación de la Lic. en Matemáticas, FC-UNAM, Mexico. **2013**

2. Día de la Estadística en el IIMAS-UNAM, Mexico. 2007
1. Conferencia Bimestral de la Asociación Mexicana de Estadística, Mexico. 2004

12.4 »» *Invited talks at institutional seminars*

- 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
- 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*

1. XXV Foro Nacional de Estadística, Cuernavaca, Mexico 2010

12.6 »» *Contributed posters*

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|-------------------------------------------------------------------------------------------|-------------|
| 2. 10 th Conference on Bayesian Nonparametrics. Raleigh. USA | 2015 |
| 1. 7 th 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*

- | | |
|-----------------------------------------------------------------------------------|-------------|
| 3. DGAOE-UNAM. Webinar: Al encuentro del mañana, Mexico. [Online due to COVID-19] | 2020 |
| 2. Fundación UNAM. Foro 2020, Mexico. [Online due to COVID-19] | 2020 |
| 1. University of Bath, Instituto for Mathematical Innovation (IMI), Bath, UK. | 2018 |

13 »»» **PROJECTS**

13.1 »» *Principal investigator in academic projects*

- | | |
|-----------------------------------------------------------------------------------------------------------------------------|------------------|
| • PAPIIT IG100221: Procesos estocásticos en inferencia bayesiana no-paramétrica (Co-PI with Carlos Díaz Avalos, IIMAS-UNAM) | 2021–2023 |
| • GCRF: " Environmental shock resilience in Mexico:data, models and policy " (Co-PI with Julian Padget, U. of Bath) | 2020–2021 |
| • CONTEX 2018-9A: <i>Bayesian Nonparametric Time Dependent Models</i> (Co-PI with Stephen G. Walker, UT-Austin) | 2018–2019 |
| • CONACyT 241195: Estadística bayesiana no-paramétrica para datos complejos | 2015–2018 |
| • CONACyT 131179: Particiones aleatorias en estadística | 2011–2014 |
| • PAPIIT IN100411: Distribuciones aleatorias dependientes | 2011-2014 |
| • CONACyT 50160: Distribuciones aleatorias y sus aplicaciones | 2007-2010 |

13.2 »» *Principal investigator in Government funded projects*

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| • Treasury and Public Credit Ministry (SHCP) and National Bank for Public Works and Services of Mexico (Banobras) Project: Upgrade system and statistical module for the , National Disasters Fund FONDEN. | 2015–2017 |
| • National Bonding and Insurance Commission (CNSF) Project: Specialised training program for solvency of insurance companies (Co-PI with Silvia Ruiz-Velasco Acosta, IIMAS-UNAM) | 2012–2018 |

- 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 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 2009–2020
–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
–IIMAS representative before the CTIC; Chair of Department
- Technical Council of the Scientific Research Coordination 2012–2016
–IIMAS Representative IIMAS
- 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
–Member of the evaluation committee

15 »» OTHER INFORMATION

15.1 »» *Affiliation to academic societies*

- Asociación Mexicana de Estadística
- Bernoulli Society
- International Society for Bayesian Analysis
- Institute of Mathematical Statistics
- The Royal Statistical Society

15.2 »» *Languages*

- Spanish
- English
- Italian