

Adrián González Casanova, Ph.D.

CONTACT INFORMATION	School of Mathematics and Statistical Sciences Arizona State University Tempe, Arizona, USA agonz591@asu.edu Mobile: +1 6232423123 https://search.asu.edu/profile/5115356
RESEARCH INTERESTS	Applied Stochastics, Probability Theory, Stochastic Processes, Stochastic Analysis, Interacting Particle Systems, Population Genetics, Mathematical modeling, Theoretical Biology, Theoretical Experimental Evolution
EDUCATION	TU Berlin and Berlin Mathematics School (BMS), Berlin, Germany Ph.D., Mathematics, Oct 2012 - Oct 2015 • Thesis Topic: <i>The effect of latency in population genetics</i> • Advisors: Professor Dr. Jochen Blath and Professor Dr. Noemi Kurt • Honors: Summa Cum Laude BMS Phase 1 (eq. to M.Sc.), Mathematics, Oct 2010 - Jan 2012, • Qualifying Exam in <i>Probability II, III and Algebraic Topology</i> Grade 1.3 (A; Very Good) • Overall grade 1.3 (A; Very Good) National University of Mexico (UNAM), Mexico City, Mexico. B.Sc., Mathematics, Aug 2005 - Dec 2009 • Thesis Topic: <i>Probability and Topology</i> • Advisor: Professor Dr. Maria Emilia Caballero • Grade 9.4 (out of 10)
EMPLOYMENT	School of Mathematical and Statistical Sciences, Arizona State University, Tempe, Arizona • Associate Professor Since Aug 2024 Department of Statistics, University of California at Berkeley, Berkeley, California • Neyman Visiting Assistant Professor Jan 2023-Jun 2024 Institute of Mathematics (IMATE) of the National University of Mexico (UNAM), Cuernavaca, Mexico • Tenured Associate Professor (Investigador Titular A) Since Jun 2022-Jan 2023 • Tenure-track Assistant Professor (Investigador Asociado C) Nov 2017-Jun 2022 Weierstrass Institut for Applied Analysis and Stochastic, Berlin, Germany • Postdoctoral Researcher in the group of Professor Dr. Wolfgang König Jul 2015-Nov 2017
AWARDS	• Elected fellow of the Latin American Academy of Sciences since 2023 • Marcus W. Feldman Prize 2022 Publication: Modelling and simulating Lenski's long-term evolution experiment • Ito Prize 2017 Publication: An individual based Model for the Lenski experiment, and the deceleration of the relative fitness

EDITORIAL WORK	• Associate Editor ALEA since Jan 2025 • Guest Editor Boletin de la Sociedad Matematica Mexicana 2023-2024
GRANTS	• New applications of moment duality. UNAM PAPIIT IN101722 2022-2025 • Branching processes with interactions, moment duality and random graphs. CONACYT Ciencia Basica A1-S-14615 2019-2023 • A stochastic model of longevity and efficiency to understand the evolution of these strategies. UNAM PAPIIT IA100419 2018-2020
SCHOLARSHIPS	• BMS Phase one Scholarship 2010-2012 • DAAD-CONACyT Complementary Scholarship 2010-2012 • RTG 1845 Stochastic Processes and Applications to Biology, Physics and Finances Scholarship 2012-2015
GROUP	• Arizona State University, Tempe, USA. Postdoc • Johnny Yang (2025-) • Esteban Vargas (2025-) PhD students • Imanol Nunez (2022-) (co-advisor: Jose Luis Perez, CIMAT) • Jose Chacon (2024-) • University of California at Berkeley, Berkeley, USA. Undergraduate students • Shreyas Swaminathan (2023-2024) • National University of Mexico (UNAM), Mexico City, Mexico. Postdoc • Veronica Miro Pina (2018-2020) (co-advisor: Arno Siri Jegousse, UNAM) PhD students • Nils Hanssen (2019-2023) (co-advisor: Maite Wilke Berenguer, Humboldt University) • Lizbeth Penaloza (2018-2022) (co-advisor: Arno Siri Jegousse, UNAM) Master students • Jose Chacon (2022-present) • Julio Nava (2021-2023) • Francisco Zarate (2021-present) • Fernanda Lopez (2020-2022) Undergraduate students • Directed 9 Bachelor theses • Universidad de El Salvador, San Salvador, El Salvador. Undergraduate students • Wilber Ortiz Cortez (2018-2019)
TEACHING EXPERIENCE	• Arizona State University, Tempe, USA. • 2025 Game Theory (Graduate level) • 2025 Game Theory (Bachelor level) • 2024 Linear Algebra (Bachelor level) • University of California at Berkeley, Berkeley, USA.

- 2024 **Game Theory** (Bachelor level)
- 2023 **Advanced probability** (Graduate level)
- 2023 **Game Theory** (Bachelor level)
- **National University of Mexico (UNAM)**, Mexico City, Mexico.
 - 2022 **Probability for genomic sciences** (Bachelor level)
 - 2022 **Calculus 2** (Bachelor level)
 - 2022 **Probability Seminar** (Master level)
 - 2021 **Probability for genomic sciences** (Bachelor level)
 - 2021 **Probability Seminar** (Master level)
 - 2020 **Probability for genomic sciences** (Bachelor level)
 - 2020 **Probability 1** (Bachelor level)
 - 2020 **Probability and Biology** (Master level)
 - 2020 **Probability 2** (Bachelor level)
 - 2019 **Stochastic Processes 1** (Bachelor level)
 - 2018 **Probability and Biology** (Bachelor level)
 - 2018 **Stochastic Processes 1** (Bachelor level)
 - 2018 **Probability and Evolution** (Advanced Master level)
 - 2018 **Probability 2** (Bachelor level)
 - 2008 Adjunct teacher in **Stochastic processes 1** with Professor Geronimo Uribe
 - 2008 Adjunct teacher in **Probability 2** with Professor Nelson Muriel Torrero
 - 2007 Adjunct teacher in **Probability 1** with Professor Nelson Muriel Torrero
- **TU Berlin**, Berlin, Germany.
 - 2018 **The Seedbank model** (Advanced Master level)
 - 2012 Tutor of **Probability 3** with Professor Dr. Noemi Kurt (Master level)
- **Caleya High School**, Caleya High School, Cuernavaca Mexico.
 - 2009 **Probability** (High School level)
 - 2009 **Calculus** (High School level)

IMPARTED MINI-COURSES

- 2025 **CUWB-IV: Frontiers in statistics and probability** CDMX, Mexico. Moment duality and the Propagation of Exchangeability
- 2022 **National Congress of Mathematics of the Mexican Mathematical Society**. Guadalajara, Mexico. The random graph used to study evolution
- 2018 **National School of Probability and Biology** CIMAT, Guanajuato, Mexico. Probability and Population Genetics
- 2018 **Workshop Bath-UNAM-CIMAT**. CIMAT, Guanajuato, Mexico. The discrete ancestral selection graph
- 2018 **CIMPA School**, Universidad de San Carlos, Guatemala, Guatemala. Probabilistic Models in Population Genetics
- 2016 **VIII School on Probability and Stochastic Processes**, CIMAT, Guanajuato, Mexico. The seed bank model

RESEARCH VISITS

- 2024 **Humboldt University of Berlin**, Germany
Visiting: Maite Wilke-Berenguer. Project: Griffiths representations
- 2023 **Humboldt University of Berlin**, Germany
Visiting: Maite Wilke-Berenguer. Project: Griffiths representations
- 2023 **University of Grenoble**, France
Visiting: Charline Smadi. Project: Muller's ratchet
- 2022 **University of Warwick** England
Visiting: Dario Spano. Project: Griffiths representations
- 2022 **Oberwolfach Fellow** MFO Oberwolfach, Germany
Together with Charline Smadi and Anton Wakolbinger. Project: Muller's ratchet
- 2022 **Hausdorff Institute**, Germany
Junior Trimester Programme on Stochastic modelling in the life science: From

evolution to medicine

- 2021 **University Duisburg-Essen**, Germany
Visiting: Anita Winter. Project: Graphons in population genetics
- 2021 **University of Grenoble**, France
Visiting: Charline Smadi. Project: Muller's ratchet
- 2021 **Indiana University**, USA
Visiting: Wai (Louis) Fan. Project: Extinction probabilities related to the FKPP equation
- 2020 **Ruhr University Bochum**, Germany
Visiting: Maite Wilke Berenguer. Project: Seedbanks and Griffiths representations
- 2020 **Goethe University Frankfurt am Main**, Germany
Visiting: Anton Wakolbinger. Project: Haldane formulas
- 2019 **TU Berlin**, Germany
Visiting: Jochen Blath and Maite Wilke Berenguer. Project: Seedbanks and Griffiths representations
- 2019 **Goethe University Frankfurt am Main**, Germany
Visiting: Anton Wakolbinger. Project: Haldane formulas
- 2018 **TU Berlin**, Germany
Visiting professor at the Berlin Mathematical School
- 2016 **National University of Mexico (UNAM)**, Mexico
Visiting: Maria Emilia Caballero. Project: α stable coalescent
- 2016 **CIMAT**, Mexico
Visiting: Juan Carlos Pardo and Jose Luis Perez. Project: Branching Processes with interaction
- 2015 **University of Oxford**, UK
Visiting: Julien Berestycki. Project: the duality between the Kingman N-Coalescent and the Lambda Fleming Viot process (with Dario Spano)
- 2013 **Goethe University Frankfurt am Main**, Germany
Visiting: Anton Wakolbinger. Project: Modeling the Lenski experiment

SELECTED
PRESENTATIONS

- 2025 **Brazilian School of Probability, 2025**, Bello Horizonte, Brazil
Title: Sampling Duality and the propagation of Exchangeability
- 2025 **Banff**, Canada
Title: The Universality class of the Stochastic F-KPP equation
- 2025 **Bernhard Flury Memorial Lecture**, Seminar on Stochastic Processes 2025. Bloomington, Indiana
Title: Sampling Duality and the propagation of Exchangeability
- 2024 **Luminy**, France
Title: The Seed Bank Random graph
- 2024 **University of Warwick**, England
Title: Asymmetric Frequency Processes
- 2024 **Colloquium at University of California at San Diego**, USA
Title: Sampling Duality
- 2024 **Colloquium at University of Oregon**, USA
Title: Sampling Duality
- 2024 **Colloquium at Arizona State University**, USA
Title: Sampling Duality
- 2023 **Seminar of Statistics**, Stanford University, USA
Title: Sampling Duality
- 2023 **Seminar of the Center for Theoretical and Evolutionary Genetics**, University of California at Berkeley, USA
Title: modeling the Lenski experiment
- 2023 **Seminar of Probability**, University of California at San Diego, USA
Title: The seed bank model

- 2023 **Penn/Temple seminar of Probability**, UPenn, USA
Sampling Duality
- 2023 **Applied Probability Society INFORMS**, Nancy, France
Title: Sampling duality and the Muller Ratchet
- 2023 **Seminar of Probability**, University of California at Davis, USA
Title: Sampling Duality
- 2023 **Seminar of Probability**, University of California at Berkeley, USA
Title: Sampling Duality
- 2023 **Neyman Seminar**, University of California at Berkeley, USA
Title: modeling the Lenski experiment
- 2023 **Seminrio de Probabilidade e Mecnica Estatstica**, IMPA, Brazil
Sampling Duality
- 2023 **Seminar of Modeling**, University of Arizona, USA
Title: modeling the Lenski experiment
- 2023 **Seminar of Probability**, University of Arizona, USA
Title: The seed bank model
- 2023 **Simposium Nacional de Probabilidad y Estadistics**, CIMAT, Mexico
The stationary distribution of the Simple Exclusion Process out of Equilibrium
- 2023 **Institutskolloquium**, Institute of Mathematics, University of Potsdam, Germany
Title: Sampling Duality
- 2022 **Workshop on Probability and Evolution**, Frankfurt, Germany
Title: Mathematics of the Lenski experiment
- 2021 **One World Probability Seminar**, virtual
Title: Branching processes and coalescent theory
- 2021 **Biohazard**, Grenoble, France
Title: Branching processes and coalescent theory
- 2021 **Centre International de Rencontres Mathmatiques**, Lumini, France
Title: Branching processes and coalescent theory
- 2020 **Kolmogorov week**, University of Honduras, Honduras
Title: Branching processes and coalescent theory
- 2020 **One world SPA conference**, virtual
Title: Branching processes and coalescent theory
- 2020 **Probability seminar**, Ruhr University Bochum, Germany
Title: Branching processes and coalescent theory
- 2020 **Probability seminar**, University of Grenoble, France
Title: Efficiency and senescence, a population genetics approach
- 2019 **Workshop on seedbanks**, Berlin, Germany
Title: The seedbank random graph
- 2018 **Stochastic Processes and their applications**, Gothenburg, Sweden
Title: A Wright Fisher model with selection in random environment
- 2017 **Branching processes and their applications**, Beijing, China
Title: Branching processes with interactions and population genetics
- 2017 **Seminar of Probability** University of Oxford, England
Title: Fixation in a Ξ coalescent model with selection
- 2016 **World Congress in Probability and Statistics**, Fields Institute, Canada
Title: The seedbank coalescent
- 2016 **Midlands Probability Theory Seminars** University of Warwick, England
Title: Fixation in a Ξ coalescent model with selection
- 2016 **Probabilistic Models in Evolutionary Biology**, University of Göttingen, Germany
Title: Fixation in a Ξ coalescent model with selection
- 2016 **Mathematical and Computational Evolutionary Biology**, Montpellier, France
Title: Modelling the Lenski experiment

- 2015 **Probability and Biological Evolution**, colloquium in honor of Anton Wakolbinger, Frankfurt, Germany
Title: An individual based model for the Lenski experiment, and the deceleration of the relative fitness
- 2015 **Probability and Biological Evolution**, CIRM, Marseille Lumini, France
Title: An individual based model for the Lenski experiment, and the deceleration of the relative fitness
- 2013 **Mind the gap 4**, Vienna, Austria
Title: A weak mutation strong selection model for experimental evolution.
- 2012 **Seminar of the University of Alexandria**, Egypt.
Title: The seed-bank model

OUTREACH

- 2024 **FUNDAPROMAT**
Title: Game Theory for Kids!
- 2022 **Instituto de Matematicas, UNAM**, Cuernavaca, Mexico
Title: Un vistazo a las ciencias. 6 Outreach conferences. Organizer
- 2022 **Despertar con ciencia**
Radio interview 106.1 FM Cuernavaca Morelos
- 2022 Interview at **REVISTA UNAM Internacional**.
- 2021 **Dia internacional de las matemáticas**.
Video: <https://youtu.be/EpaiV6KSU>
- **Museo de Ciencias de Morelos**
Title: Hoy los niños preguntan Video: <https://fb.watch/fFOLFe4WeG/>.
- 2012 **DAAD Science Slam** Cairo, Egypt.
Title: The seed-bank model

SERVICE

Organized Conferences

- 2023 **Centro de Ciencias Genómicas, UNAM**, Cuernavaca, Mexico
Title: Primer encuentro de la red nacional de Biología y Matemáticas
- 2022 **Hausdorff Institute**, Germany
Title: Workshop: Population Genetics, Interacting Particle Systems and Stochastic Flows: a duality perspective.
- 2022 **Centro de Ciencias Genómicas, UNAM**, Cuernavaca, Mexico Title: segundo fin de semana de la probabilidad
- 2022 **Centro de Ciencias Genómicas, UNAM**, Cuernavaca, Mexico Title: Primer fin de semana de la probabilidad
- 2021 **Casa Matemática Oaxaca (Banff)**, Oaxaca, Mexico
Title: Matemáticos Mexicanos en el mundo
- 2019 **CLAPEM** Merida, Yucatan
Title: Contributed section at XV Latin American Congress of Probability and Mathematical Statistics
- 2019 **UNAM**, Mexico
Title: Segundo Taller Nacional de Probabilidad y Biología
- 2018 **UNAM**, Mexico
Title: Primer Taller Nacional de Probabilidad y Biología
- 2013 **TU Berlin**, Germany
Title: First meeting of Latin American students in Probability and Statistics in Europe
- 2012 **TU Berlin**, Germany
Title: First BMS student conference

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Organized Conferences

- 2023 **Centro de Ciencias Genómicas, UNAM**, Cuernavaca, Mexico
Title: Primer encuentro de la red nacional de Biología y Matemáticas
- 2022 **Hausdorff Institute**, Germany
Title: Workshop: Population Genetics, Interacting Particle Systems and Stochastic Flows: a duality perspective.
- 2022 **Centro de Ciencias Genómicas, UNAM**, Cuernavaca, Mexico Title: segundo fin de semana de la probabilidad
- 2022 **Centro de Ciencias Genómicas, UNAM**, Cuernavaca, Mexico Title: Primer fin de semana de la probabilidad
- 2021 **Casa Matemática Oaxaca (Banff)**, Oaxaca, Mexico
Title: Matemáticos Mexicanos en el mundo
- 2019 **CLAPEM** Merida, Yucatan
Title: Contributed section at XV Latin American Congress of Probability and Mathematical Statistics
- 2019 **UNAM**, Mexico
Title: Segundo Taller Nacional de Probabilidad y Biología
- 2018 **UNAM**, Mexico
Title: Primer Taller Nacional de Probabilidad y Biología
- 2013 **TU Berlin**, Germany
Title: First meeting of Latin American students in Probability and Statistics in Europe
- 2012 **TU Berlin**, Germany
Title: First BMS student conference

Seminar Organizer

- 2024 **UC Berkeley Probability Seminar**, Berkeley, USA
- 2023 **UC Berkeley Probability Seminar**, Berkeley, USA
- 2023 **One World Probability Seminar**

Activity in the Mexican Mathematical Society

- 2024 Electer Member of the **Consulting Committee** of the Mexican National Conference in Mathematics
- 2023 Member of the **Scientific Committee** of the Mexican National Conference in Mathematics
- 2022 Member of the **Scientific Committee** of the Mexican National Conference in Mathematics
- 2022 Responsible for the **Contributed Sessions** of the Mexican National Conference in Mathematics
- 2021-2023 Member of the **Internationalisation Commission** of the Mexican Mathematical society

Student representative

- 2013-2014 **Research Training Group 1845**, Berlin, Germany
- 2011-2012 **Berlin Mathematical School**, Berlin, Germany

Postdoc representative

- 2017 **Berlin Mathematical School**, Berlin, Germany

PUBLICATIONS

1. Scaling limit of an adaptive contact process. **A. González Casanova**, A. Tóbiás, D. Valesin. (**Annals of Probability**), Volume 52 (1), 2024, Pages 296-349.
2. Lookdown construction for a Moran seed-bank model. M.C. Fittipaldi, **A. González**

- Casanova, J.E. Nava-Trejo. (**Electronic Communications in Probability**), Volume 29, 2024, Pages 1-14.
3. Muller's ratchet in a near-critical regime: tournament versus fitness proportional selection. J.L. Igelbrink, **A. González Casanova**, C.L. Smadi, A. Wakolbinger. (**Theoretical Population Biology**), Volume 158, 2024, Pages 121-138.
 4. The ancestral selection graph for a Λ -asymmetric Moran model. **A. González Casanova**, N. Kurt, J.L. Pérez. (**Theoretical Population Biology**), Volume 159, 2024, Pages 91-107.
 5. Asymptotics of the frequency spectrum for general Dirichlet Ξ -coalescents. **A. González Casanova**, V. Miró Pina, E. Schertzer, A. Siri-Jégousse. (**Electronic Journal of Probability**), Volume 29, 2024, Pages 1-35.
 6. The relative frequency between two continuous-state branching processes with immigration and their genealogy. M.E. Caballero, **A. González Casanova**, J.L. Pérez. (**Annals of Applied Probability**), Volume 34 (1B), 2024, Pages 1271-1318.
 7. Alpha-stable branching and beta-frequency processes, beyond the IID assumption. **A. González Casanova**, I. Nuñez, J.L. Pérez. (**Electronic Communications in Probability**), Volume 29, 2024, Pages 1-12.
 8. Quasi-equilibria and click times for a variant of Muller's ratchet. **A. González Casanova**, C. L. Smadi, A. Wakolbinger. arXiv:2211.13109 (**Electronic Journal of Probability**, 2024).
 9. Seed bank Cannings graphs: How dormancy smooths random genetic drift. **A. González Casanova**, L. Peñaloza, A. Siri-Jégousse. arXiv:2210.05819 (**ALEA**, 2023).
 10. Plasmid stability in fluctuating environments: population genetics of multi-copy plasmids. J. C. R. Hernandez-Beltran, V. Miro Pina, A. Siri-Jégousse, S. Palau, R. Peña-Miller, **A. González Casanova**. (**Ecology and Evolution**, 2023).
 11. The role of connectivity on COVID-19 preventive approaches. V. Miró Pina, J. Nava-Trejo, A. Tóbiás, E. Nzabarushimana, **A. González Casanova**¹, I. González-Casanova. 17(9). (**PLOS ONE**, 2022).
 12. Λ -coalescents arising in populations with dormancy. F. Cordero, **A. González Casanova**, J. Schweinsberg, M. Wilke-Berenguer. (**Electronic Journal of Probability**, 2022).
 13. The symmetric coalescent and Wright-Fisher models with bottlenecks. **A. González Casanova**, V. Miro Pina, A. Siri-Jégousse. (**Annals of Applied Probability**, 2022).
 14. The shape of a seed bank tree. **A. González Casanova**, L. Peñaloza, A. Siri-Jégousse. (**Journal of Applied Probability**, 2022).
 15. Haldane's formula in Cannings models: The case of moderately strong selection. F. Boenkost, **A. González Casanova**, C. Pokalyuk, A. Wakolbinger. (**Journal of Mathematical Biology**, 2021).
 16. Particle systems with coordination. **A. González Casanova**, N. Kurt, A. Tobias. (**ALEA**, 2021).

¹Corresponding author.

17. Separation of time-scales for the seed bank diffusion and its jump-diffusion limit. J. Blath, E. Buzzoni, **A. González Casanova**, M. Wilke-Berenguer. (**Journal of Mathematical Biology**, 2021).
18. Branching processes with interactions: The subcritical cooperative regime. **A. González Casanova**, J. C. Pardo, J. L. Perez. (**Advances in Applied Probability**, 2021).
19. Haldane's formula in Cannings models: The case of moderately weak selection. F. Boenkost, **A. González Casanova**, C. Pokalyuk, A. Wakolbinger. (**Electronic Journal of Probability**, 2021).
20. Multidimensional Λ -Wright-Fisher processes with general frequency-dependent selection. **A. González Casanova**, C. Smadi. (**Journal of Applied Probability**, 2020).
21. The Wright-Fisher model with efficiency. **A. González Casanova**, V. Miro Pina, J. C. Pardo. (**Theoretical Population Biology**, 2020).
22. The seed bank coalescent with simultaneous switching. J. Blath, **A. González Casanova**, N. Kurt, M. Wilke-Berenguer. (**Electronic Journal of Probability**, 2020).
23. Structural properties of the seed bank and the two-island diffusion. J. Blath, E. Buzzoni, **A. González Casanova**, M. Wilke-Berenguer. (**Journal of Mathematical Biology**, 2019).
24. Modelling and simulating Lenski's long-term evolution experiment. E. Baake, **A. González Casanova**, S. Probst, A. Wakolbinger. (**Theoretical Population Biology**, 2019)².
25. Duality and fixation in Ξ -Wright-Fisher processes with frequency-dependent selection. **A. González Casanova**, D. Spano. (**Annals of Applied Probability**, 2018).
26. An individual-based model for the Lenski experiment, and the deceleration of the relative fitness. **A. González Casanova**, N. Kurt, A. Wakolbinger, L. Yuan. (**Stochastic Processes and their Applications**, 2016)³.
27. A new coalescent for seed-bank models. J. Blath, **A. González Casanova**, N. Kurt, M. Wilke-Berenguer. (**Annals of Applied Probability**, 2016).
28. Genetic variability under the seed-bank coalescent. J. Blath, B. Eldon, **A. González Casanova**, N. Kurt, M. Wilke-Berenguer. (**Genetics**, 2015).
29. Genealogy of a Wright-Fisher model with strong seed-bank component. J. Blath, B. Eldon, **A. González Casanova**, N. Kurt. (**Birkhaeuser Progress in Probability**, 2014).
30. Strong seed-bank effects in bacterial evolution. **A. González Casanova**, E. Aguirre, G. Espín, L. Servin-González, N. Kurt, D. Spano, J. Blath, G. Sóberon-Chavez. (**Journal of Theoretical Biology**, 2014).
31. The ancestral process of long-range seed-bank models. J. Blath, **A. González Casanova**, N. Kurt, D. Spano. (**Journal of Applied Probability**, 2013).

²Feldman Prize 2022

³Ito Prize 2017

ARTICLES IN
PRESS

1. The effective strength of selection in random environment. **A. González Casanova**, D. Spanó, M. Wilke-Berenguer. arXiv:1903.12121 (Accepted in Annals of Applied Probability)
2. Seed balancing selection: Coexistence in seedbank models. **A. González Casanova**, J. L. Perez Garmendia, M. E. Caballero. arxiv:2109.07645 (Accepted in Advances/Journal in Applied Probability)

SUBMITTED

1. Multitype Λ -coalescents and continuous-state branching processes. **A. González Casanova**, N. Kurt, I. Nuñez Morales, J.L. Pérez. arXiv preprint arXiv:2501.00329, 2024.
2. Two waves of adaptation: speciation induced by dormancy in a model with a changing environment. F. Cordero, **A. González Casanova**, J. Schweinsberg. arXiv preprint arXiv:2410.10890, 2024.
3. From clonal interference to Poissonian interacting trajectories. F. Hermann, **A. González Casanova**, R.S. Santos, A. Tóbiás, A. Wakolbinger. arXiv preprint arXiv:2407.00793, 2024.
4. Absorption and stationary times for the Λ -Wright-Fisher process. A. Blancas, **A. González Casanova**, S. Palau, S. Hummel. arXiv:2308.09218
5. Non-equilibrium steady state of the symmetric exclusion process. S. Floriani, **A. González Casanova**. arXiv:2307.02481.