Matías Carrasco Kind

	Positions
2024 – present	Faculty in Residence, Discovery Partners Institute, DPI, Chicago, IL, USA.
2021 – present	Director, Data Science Research Services, Gies College of Business, UIUC, IL, USA.
	Research Assistant Professor, Department of Accountancy, UIUC, IL, USA.
	Research Assistant Professor, National Center for Supercomputing Applications.
2020 - 2021	Assistant Director, Data Science Research Services, Gies College of Business, UIUC.
2019 - present	Research Assistant Professor, Department of Astronomy, UIUC, IL, USA.
2018 - 2021	Senior Research Scientist, National Center for Supercomputing Applications (NCSA).
2014 - 2017	Research Scientist, National Center for Supercomputing Applications (NCSA), UIUC.
2008-2010	Adjunct Professor, Universidad Andres Bello (UNAB), Santiago, Chile.
2008-2010	Research Scientist, Universidad Andres Bello (UNAB), Santiago, Chile.
2006–2008	Graduate student (IMPRS PhD student), MPA, Garching, Germany.
2006	LENAC/ALFA visitor, Max Planck Institute for Astrophysics (MPA).
	Education
2010 – 2014	Ph.D., Astrophysics , Department of Astronomy, University of Illinois at Urbana-Champaign (UIUC), IL, USA.
	with Computational Science and Engineering (CSE) graduate option
Thesis title	"Probabilistic Photometric Redshifts in the era of Petascale Astronomy", Advisor: Prof. Dr. Robert Brunner (UIUC)
2011	M.S., Astrophysics, University of Illinois at Urbana-Champaign (UIUC), IL, USA.
2006 – 2008	Ph.D. candidate, Ludwig-Maximilians Universität, München, Germany, Program carried out through the International Max-Planck Research School (IMPRS) at Max-Planck Institute for Astrophysics (MPA). Garching, Germany.

Thesis title "Large-scale structure in the galaxy distribution", Advisors: Prof. Dr. S.D.M. White (MPA), Dr. G. Kauffmann (MPA)

2006 **B.S., Astronomy (5 years program)**, Pontificia Universidad Católica de Chile (PUC), Santiago, Chile, <u>summa cum laude</u>.

Thesis carried out at Max-Planck Institute for Astrophysics(MPA), Garching, Germany

Thesis title "Environmental dependence of Dark Matter Halos properties in a Λ CDM Universe", Advisors: Prof. Dr. S.D.M. White (MPA), Dr. Felipe Barrientos (PUC)

Languages

Spanish Native

English Fluent, written and spoken

German Written (basic), spoken (intermediate level)

Experience

Teaching

- 2025 Professor, BDI 513: Data Storytelling, Business Analytics, UIUC, USA.
 - Professor, BDI 367: <u>Data Visualization and Communication</u>, UIUC, USA.
 - Professor, BIOE 488: Applied HPC for Imaging Science, Bio Engineering, UIUC, USA.
- 2024 Professor, BDI 513: Data Storytelling, Business Analytics, UIUC, USA.
 - Professor, BDI 367: Data Visualization and Communication, UIUC, USA.
 - Professor, BIOE 488: Applied HPC for Imaging Science, Bio Engineering, UIUC, USA.
- 2023 Professor, BDI 513: Data Storytelling, Business Analytics, UIUC, USA.
 - Professor, BDI 367: Data Visualization and Communication, UIUC, USA.
 - Professor, BIOE 488: Applied HPC for Imaging Science, Bio Engineering, UIUC, USA.
- 2022 **Professor**, BDI 513: Data Storytelling, Business Analytics, UIUC, USA.
 - Professor, BDI 367: Data Visualization and Communication, UIUC, USA.
 - Invited Lecturer, Astrophysical Seminar, UIUC, USA.
- 2021 Invited Lecturer, AI in Astronomy Seminar, UIUC, USA.
- 2017 Invited Lecturer, PhD Seminar, Cosmology, University of Chicago, USA.
- 2016 SPIN (Students Pushing INnovations) Mentor, NCSA, UIUC, USA.
- 2015 SPIN Mentor, NCSA, UIUC, USA.
- 2014 SPIN Mentor, NCSA, UIUC, USA.
 - NSF POP (Passionate On Parallel) REU (Research Experience for Undergraduates) Mentor, UIUC, USA.
 - Google Summer of Code Mentor, For the LCDM organization at UIUC, Google, CA.
- 2011 Laboratory Teaching Assistantship, ASTR132: Stars and Galaxies Lab, UIUC, USA.

 Teaching Assistantship, ASTR122: Stars and Galaxies, UIUC, USA.
- 2010 Teaching Assistantship, ASTR404: Stellar Astrophysics, UIUC, USA.
- 2010 Professor, FMF023: <u>Introduction to Physics</u>, FMF122: <u>Classical Mechanics</u> and FMF241: <u>Electromagnetism</u> for Physics and Civil Engineering, UNAB, Chile.
 Professor, FMF120: Acoustic Physics for Phonoaudiology, UNAB, Chile.
- 2010.summer Professor, FMF122: Classical Mechanics for Civil Engineering, UNAB, Chile.
 - 2009 **Professor**, FMF023: <u>Introduction to Physics</u>, FMF122: <u>Classical Mechanics</u> and FMF241: <u>Electromagnetism</u> for Physics and Civil Engineering, UNAB, Chile. **Professor**, FMF019: Physics for Medicine, UNAB, Chile.
 - 2009 **Professor**, FMF023: <u>Introduction to Physics</u>, FMF122: <u>Classical Mechanics</u> and FMF241: Electromagnetism for Physics and Civil Engineering, UNAB, Chile.
 - 2008 Professor, FMF122: <u>Classical Mechanics</u> for Civil Engineering, UNAB, Chile.
 Professor, FMF019: <u>Physics</u> for Medicine, UNAB, Chile.
 - Lab Graduate T.A., Two laboratory courses (Mechanics and Waves and Heat), PUC.
- 2002 2005 Undergraduate T.A., 8 teaching assistantships, Contemporary Physics, Electromagnetism (x3), Advanced Mathematical Methods of Physics, Mechanics, General Astrophysics, Modern Physics, PUC.
 - Lab Undergraduate T.A., 8 laboratory teaching assistantship, PUC.

Mentorship

Advisor Research Advisor for over 42 undergraduates, over 42 graduates and 8 PhD students

Computer programming experience

OS Unix, Linux, OS X, Windows

Languages Python, R, C/C++, Fortran, Go, Shell, HTML, CSS, Javascript, PL/SQL, LATEX

Others HPC, Condor, Cuda, Data Intensive Science, AI/ML, Spark, Flask/Tornado, Docker, Web components/development, MongoDB, SQL, Redis, Kubernetes, Cloud computing

Other professional experience

2024 **DEI Liaison**, Gies College of Business, UIUC.

2022 Program Committee, 3rd Deep Learning Theory and Applications Conference, Lisboa.

2021 **Program Committee**, 2nd Deep Learning Theory and Applications Conference, France.

2020 Snowmass 2021 Co-Convener, Computational Frontier Reinterpretation and long-term preservation of data and code convener, US National Physics program.

Program Committee, 1st Deep Learning Theory and Applications Conference, France. **Program Committee**, Gateways 2020 Conference, USA.

2018 - current Data Release Scientist, Dark Energy Survey, USA.

2018 LOC/SOC co-chair, Data Visualization and Exploration in the LSST Era, NCSA, Urbana, IL, USA, June 19.

2017 - 2018 Science Release Working Group chair, Dark Energy Survey, USA.

2017 LOC, DES Chicagoland meeting, NCSA, Urbana, IL, USA, October 3.

2016 **SOC**, LSST photo-z Workshop, University of Pittsburgh, Pennsylvania, PA, USA, April 5-7.

2015 LOC, DES Chicagoland meeting, NCSA, Urbana, IL, USA, December 10.

Other Referee for Journal of Open Source Software, JOSS.

Referee for Computer Science journal, PeerJ Computer Science, PeerJ.

Referee for Nature Astronomy, Nature, Nature Publishing Group.

Referee for Fondecyt (Chilean National Funds for Scientific and Technological Development), Government of Chile.

Referee for instrumentation journal, Sensors, MDPI.

Referee for astronomical journals, ApJ (IOP Publishing for the AAS), MNRAS (Oxford University Press), Astronomy & Computing (Elsevier), Experimental Astronomy (Springer), Astronomy & Astrophysics (Springer).

- Scholarships and Honours
- 2025 List of Teachers Ranked as Excellent, UIUC, USA.
- 2024 Faculty in Residence Professorship, Discovery Partners Institute, DPI, USA.
 Deloitte Foundation Center for Business Analytics Scholar, Gies College of Business.
 - List of Teachers Ranked as Excellent, UIUC, USA.
- 2022 List of Teachers Ranked as Excellent, UIUC, USA.
- 2019 National Academy of Sciences, Space Studies Board Panelist for Big Data, National Academy of Sciences, USA.
 - Trusted CI Open Science Cybersecurity Fellowship, NSF Cybersecurity Center of Excellence, NSF, USA.
- 2015 Outstanding Contribution Award, NCSA, IL, USA.
- Junior scientist award to attend the DES International Collaboration meeting, LBNL, CA, USA.
- 2012 Finantial aid award to attend, ADASS-XXII, UIUC, Champaign-Urbana, USA.
- 2011–2013 Computational Science and Engineering Fellowship, UIUC, Urbana, USA.
 - 2011 Love of Learning Award, Phi Kappa Phi honor Society, UIUC Chapter.
 - 2011 Phi Kappa Phi Honor Society Membership, UIUC, Urbana-Champaign, IL, USA.
 - 2009 **Beca Chile**, Merit-based scholarship given by the Chilean government for abroad PhD studies (Awarded but declined), CONICYT, Chile.
- 2006–2008 **IMPRS PhD fellowship**, from the International Max-Planck Research School in Astrophysics, MPA.
 - 2006 Marie Curie Host Fellowship for Early Stage Research Training, (4 months), MPA.
 - 2006 ALFA/LENAC programme fellowship, at Max-Planck Institut für Astrophysik, January to June. Fellowship given to exceptional Latin-americans students through the LENAC Network to complete a research training project in Europe, MPA-PUC.
 - Summer school fellowship at Observatory UC from Universidad Católica
- 2002–2003 **FEUC scholarship**, Given by the Universidad Católica's student government for academic excellence in order to finance part of the annual university debt, PUC.

Projects/Grants

- 2025 AI-Driven Insights: Analyzing Earnings Calls with Large Language Models, Grant #: NAIRR240486, PI, \$30K, OpenAI credits NAIRR, NSF, USA.
- 2024 **Tech Talent Hub**, Faculty in Residence, PI, \$65K, Discovery Partners Institute, DPI, USA.
 - Gies Consumer and Small Business Credit Panel, Gies Research Grant, PI, \$120K Faculty in Residence Professorship, Gies College of Business, UIUC, USA.
- 2022 present Azure Research Award, PI, \$160K to date in cloud credits during 3 years, Azure, USA.
 - 2023 DeepDISC-Roman: Detection, Instance Segmentation, and Classification for Roman with Deep Learning, LSST Enabling Science Award, Co-PI, \$308K, NASA, USA.
 - CDS&E: Detection, Instance Segmentation, and Classification for Astronomical Surveys with Deep Learning (DeepDISC), Co-PI, \$489K, NSF, USA.

- 2017 **Data Visualization and Exploration in the LSST Era**, LSST Enabling Science Award , Co-PI, \$15K , LSST Corporation, USA.
 - Selected Seminars, Schools and Conferences
- 5th International School on Deep Learning, Bournemouth, UK, Jan 17 21, invited keynote.
 - Scientific Gateways 2023, Pittsburgh, USA, Oct 29 31, contributed talk.
- 2nd International Conference on Deep Learning Theory and Applications, Virtual, July 9 7, invited keynote.
 - American Astronomical Society 237th meeting, Virtual, January 9 13, DES DR2 release talk, DES special session.
- Frontier Development Lab: Big Think, NASA AMES Research Center, CA, Jan 30, invited talk.
- CHPC National Conference, Boksburg, South Africa, Dec 2 − 5, invited keynote.
 - National Academy of Sciences, Space Studies Board Meeting, Maximizing Scientific Outcome with Big Data, Irvine, CA, Nov 6-7, invited talk and panelist.
 - Laboratório Interinstitucional de e-Astronomia(LIneA) Seminar, Rio de Janeiro, Brasil, Oct 10, invited webinar talk.
 - NCSA Industry Conference, NCSA, Urbana, IL, Oct 9 10, invited talk.
 - \bullet Gateways 2019 , Science Gateways Community Institute, San Diego, CA, Sep 23 25, contributed talk.
 - Practice and Experience in Advanced Research Computing (PEARC 19), Chicago, IL, July 28 31, contributed to panel.
 - **DES international collaboration meeting**, UPenn, Philadelphia, PA, June 17 21, contributed talks.
 - Artificial Intelligence for Data Discovery and Reuse, CMU, Pittsburgh, PA, May 13 15, contributed talk.
 - UIUC Astrofest, Urbana, IL, April 23rd, contributed talk.
- **2018 Kubecon 2018**, Seattle, WA, December 10 − 14.
 - AstroData2020s Science Workshop, Caltech/IPAC, CA, USA, Dec 4 7, invited talk.
 - DES international collaboration meeting, Campinas, Brazil, Dec 3 7, contributed talk.
 - Laboratório Interinstitucional de e-Astronomia(LIneA) Seminar, Rio de Janeiro, Brasil, Oct 10, invited webinar talk.
 - Near-Field Cosmology with the Dark Energy Survey's DR1 and Beyond, University of Chicago, USA, June 27 29, invited talk.
 - \bullet Data Visualization and Exploration in the LSST Era, Urbana, IL, June 19 21, contributed talks.
 - 9th Workshop on Scientific Cloud Computing, Tempe, AZ, June 11 14, contributed talk.
 - **DES international collaboration meeting**, Texas A&M University, USA, May 14 18, contributed talk and session.
 - Science Platforms/Server-Side Analytics Workshop, STScI, Baltimore, MD, February 26 28, invited talk.
 - American Astronomical Society 231st meeting, Washington, DC, January 8 12, DES DR1 release talk, DES special session.

- 2017 **Kubecon 2017**, Austin, TX, December 6 − 8.
 - Dark Energy Survey Chicagoland Meeting, NCSA, Urbana, IL, October 3, contributed talk, LOC.
 - National Data Service Container Workshop, NCSA, Urbana, IL, August 17 18, invited talk.
 - **DES international collaboration meeting**, University of Chicago, USA, June 12 16, contributed talks and demo.
 - Detecting the Unexpected, Discovery in the Era of Astronomically Big Data, Space Telescope Science Institute, Baltimore, MD, February 27 March 2. contributed invited talk and demo
 - American Astronomical Society 229rd meeting, Grapevine, TX, January 3 7, contributed poster.
- **DES international collaboration meeting**, University of Cambridge, UK, December 12 16, contributed talk.
 - Kubecon 2016, Seattle, WA, November 8 9.
 - University of Chicago/KICP guest lecturer, Chicago, IL, October 14, invited lecture.
 - CEFCA Seminar, CEFCA, Teruel, Spain, October 13, invited webtalk.
 - Dark Energy Survey Chicagoland Meeting, Argonne National Lab, Lemont, IL, August 30, contributed talk.
 - **DES international collaboration meeting**, SLAC National Accelerator Laboratory, CA, May 9 13, contributed talk and tutorial.
 - LSST photo-z Workshop, University of Pittsburgh, Pennsylvania, PA, April 5, contributed talk.
 - LSST Tech Talk, LSST, March 22, contributed webtalk.
- 2015 Dark Energy Survey Chicagoland Meeting, NCSA, Urbana, IL, December 10, contributed talk, LOC.
 - Nebula Openstack users meeting, NCSA, Urbana, IL, November 11, contributed talk.
 - LSST Dark Energy Sience Collaboration meeting, Argonne National Lab, Lemont, IL, October 27 30, contributed talk.
 - Dark Energy Survey Chicagoland Meeting, University of Chicago, IL, September 9, contributed tutorial.
 - **DES international collaboration meeting**, University of Michigan, Ann Arbor, MI, May, 11-15, contributed talk and tutorial.
 - Tools for Astronomical Big Data, NOAO, Tucson, AZ, March 9 11, contributed talk.
 - **DECam Community Science Workshop**, NOAO, Tucson, AZ, March 11 13, contributed talk.
 - Dark Energy Survey Chicagoland Meeting, Fermilab, Batavia, IL, February 23, contributed tutorial.
- Dark Energy Survey Chicagoland Meeting, Argonne National Laboratory, Lemont, IL, December 9, contributed talk.
 - Google Summer of Code summit, San Jose, CA, October 23 26.
 - LSST Dark Energy Sience Collaboration meeting, Philadelphia, PA, June 17 19, contributed talk.
 - Big Data Workshop, UIUC, Computational Science and Engineering department, Urbana, May, 28 30, invited tutorial/talk.

- DES international collaboration meeting, UIUC/NCSA, Urbana, May, 19 23, contributed talk.
- Laboratório Interinstitucional de e-Astronomia(LIneA) Seminar, Rio de Janeiro, Brasil, May 8, <u>invited webinar talk</u>.
- LSST Dark Energy Sience Collaboration meeting, Pittsburgh, PA, Dec 3 6, 2 contributed talks.
 - 46th Annual Fermilab Users Meeting, Fermilab, Batavia, IL, June 12 13, contributed talk on behalf Dark Energy Survey.
 - \bullet American Astronomical Society 222rd meeting, Indianapolis, Indiana, June 3 6, contributed poster.
 - \bullet Computational Science and Engineering Annual Meeting, UIUC, April, 24 25, contributed talk and poster.
 - \bullet DES international collaboration meeting, LBNL, Berkeley, California, April, 8 12, 3 contributed talks.
- 2012 Universidad Catolica de Chile Seminar, PUC, Santiago, Chile, December 6, invited talk.
 - CTIO Scientific colloquia, invited NOAO South Visiting Astronomer, CTIO, La Serena, Chile, December 3, invited talk.
 - Astronomical Data Analysis Software and Systems ADASS-XXII, UIUC, November 4 8, contributed talk.
 - Computational Science and Engineering Annual Research Symposium, UIUC, April, 24, contributed talk.
- SOCHIAS meeting, Chilean Astronomical Society, Santiago, January, 14 16.
- "The Galaxy and its stellar halo: insights on their formation from a hybrid cosmological approach", MPA, May, 26.
 - IMPRS seminar, Max-Planck Institut für Astrophysik, January 22, contributed talk.
- "Modern theories of galaxy formation: methods, aims and limits", Max-Planck Institut für extraterrestrische Physik, MPE, Garching, Germany, November 22.
 - "Building Mock catalogues of galaxies", Max-Planck Institut für extraterrestrische Physik, October 12, contributed talk.
 - IMPRS seminar, Max-Planck Institut für Astrophysik, June 21, contributed talk.
 - "The impact of AGN feedback on galaxy formation: theoretical modeling and observational signatures", Ringberg Castle, Germany, May 20-26.
 - "SCS PIRE Summer School on the Large Scale Structure-CMB connection", Universidad Católica de Chile (PUC), March 19, contributed poster.
- "Studying galaxy formation and evolution with semi-analytic models", MPA, March 11.
 - "XIII IAGUSP Advanced School of Astrophysics and the LENAC special session", Foz do Iguazu, Brasil, April 6, contributed talk.
- Latin American Astronomy School, ESO, Chile, December, 8-10, contributed poster.

Publications

All Publications

Metrics Total publications: 490, citations: > 48,000, h-index: 106, i10-index: 383

Links ADS link to all publications, Google Schoolar Profile

Selected publications

- Qingwen Liang, Matias Carrasco Kind, "How does Managers' Willingness to Disclose Affect Analysts' Earnings Forecasts A Measurement by LLMs", Under Review arxiv.org/abs/2505.18419 (2025)
- Matias Carrasco Kind, "Scalable Research Infrastructure in a Business School Context: A Case Study of the Data Science Research Services", Science Gateways 2023, SG23 (2023)
- Joshua Yao-Yu Lin, Sneh Pandya, Devanshi Pratap, Xin Liu, **Matias Carrasco Kind**, "AGNet: Weighing Black Holes with Machine Learning", MNRAS, 518, 4921 (2023)
- G. Merz, Y. Liu, C. Burke, P. Aleo, X. Liu, M. Carrasco Kind, et al., "Detection, instance segmentation, and classification for astronomical surveys with deep learning (DEEPDISC): DETECTRON2 implementation and demonstration with Hyper Suprime-Cam data", MNRAS, 526, 1122 (2023)
- Sahand Hariri, Matias Carrasco Kind, Robert J. Brunner, "Extended Isolation Forest", arXiv e-prints:1811.02141, IEEE TKDE, 2019, vol. 33, 1479 (2021)
- Alex Gagliano, Gautham Narayan, Andrew Engel, **Matias Carrasco Kind**, "GHOST: Using Only Host Galaxy Information to Accurately Associate and Distinguish Supernovae", ApJ, 908, 170 (2021)
- T. M. C. Abbott, F. B. Abdalla, S. Allam, A. Amara, J. Annis, et al. (Corresponding author: M. Carrasco Kind), "The Dark Energy Survey: Data Release 2", ApJS, 255, 20 (2021)
- Brandon Buncher, Awshesh Nath Sharma, **Matias Carrasco Kind**, "Survey2Survey: A deep learning generative model approach for cross-survey image mapping", MNRAS, 503, 777 (2021)
- I. Sevilla-Noarbe, K. Bechtol, **M. Carrasco Kind**, A. Carnero Rosell, M. R. Becker, et al., "Dark Energy Survey Year 3 Results: Photometric Data Set for Cosmology", ApJS, 254, 24 (2021)
- Brandon Buncher, Matias Carrasco Kind, "Probabilistic cosmic web classification using fast-generated training data", MNRAS, 497:5041-5060 (2020)
- M. Carrasco Kind, M. Zurauskas, A. Alex, et al., "flimview: A software framework to handle, visualize and analyze FLIM data", F1000Research 2020, 9:574 (2020)
- M. Carrasco Kind, Alex Drlica-Wagner, Audrey Koziol, Don Petravick, "easyaccess: Enhanced SQL command line interpreter for astronomical surveys", The Journal of Open Source Software, 4:1022 (2019)
- M. Carrasco Kind, "Searching for similarities and anomalies in a pool of galaxy images", Artificial Intelligence for Data Discovery and Reuse, (2019)
- T. M. C. Abbott, F. B. Abdalla, S. Allam, A. Amara, J. Annis, et al. (Corresponding author: M. Carrasco Kind), "The Dark Energy Survey: Data Release 1", ApJS, 239:18 (2018)
- E. Morganson, R. A. Gruendl, F. Menanteau, M. Carrasco Kind, Y.-C. Chen, et al., "The Dark Energy Survey Image Processing Pipeline", PASP, 130:074501 (2018)
- S. Hariri, M. Carrasco Kind, "Batch and Online Anomaly Detection for Scientific Applications in a Kubernetes Environment", Proceedings of the 9th Workshop on Scientific Cloud Computing, (2018)
- W. Yu, M. Carrasco Kind, R. J. Brunner, "Vizic: A Jupyter-based interactive visualization tool for astronomical catalogs", Astronomy and Computing, 20:128-139 (2017)

- J. Asorey, M. Carrasco Kind, I. Sevilla-Noarbe, R. J. Brunner, J. Thaler, "Galaxy clustering with photometric surveys using PDF redshift information", MNRAS, 459:1293-1309 (2016)
- Edward J. Kim, Robert J. Brunner, **Matias Carrasco Kind**, "A hybrid ensemble learning approach to star-galaxy classification", MNRAS, 453:507-521 (2015)
- Matias Carrasco Kind, "Probabilistic Photometric Redshifts In The Era Of Petascale Astronomy", PhD Thesis (2015)
- C. Sánchez, M. Carrasco Kind, H. Lin, R. Miquel, F. B. Abdalla, et al., "Photometric redshift analysis in the Dark Energy Survey Science Verification data", MNRAS, 445:1482-1506 (2014)
- Matias Carrasco Kind, Robert J. Brunner, "Exhausting the information: novel Bayesian combination of photometric redshift PDFs", MNRAS, 442:3380-3399 (2014)
- Matias Carrasco Kind, Robert J. Brunner, "Sparse representation of photometric redshift probability density functions: preparing for petascale astronomy", MNRAS, 441:3550-3561 (2014)
- Matias Carrasco Kind, Robert J. Brunner, "SOMz: photometric redshift PDFs with self-organizing maps and random atlas", MNRAS, 438:3409-3421 (2014)
- M. Carrasco Kind, R. J. Brunner, "Implementing Probabilistic Photometric Redshifts", ASPC, 475, 69C (2013)
- Matias Carrasco Kind, Robert J. Brunner, "TPZ: photometric redshift PDFs and ancillary information by using prediction trees and random forests", MNRAS, 432:1483-1501 (2013)

Books and Thesis

- Carrasco Kind, M., 2014, "Probabilistic Photometric Redshifts in the era of petascale astronomy", Ph.D. Thesis, University of Illinois at Urbana Champaign
- Carrasco Kind, M., 2014, "Probabilistic Photometric Redshifts in the era of petascale astronomy", Ph.D. Thesis, University of Illinois at Urbana Champaign
- Carrasco Kind, M., White S. & Barrientos, F., 2006, "Spatial distribution and formation times of dark matter halos from the Millenium simulation", B.S. Thesis, Pontificia Universidad Catolica de Chile
- "Fisica 3", ed. Santillana, Chile, 2010 (Book Reviewer and Chapter Co-Author)
- "Quimica 4", ed. Santillana, Chile, 2011 (Book Reviewer and Scientific Advisor)