

# Dominique M. Segura-Cox

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## Independent Postdoctoral Prize Fellow

The University of Texas at Austin

Department of Astronomy

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## EDUCATION

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**University of Illinois at Urbana-Champaign**, Urbana, Illinois

2011 – 2017

**Ph.D. in Astronomy**, *Illinois Distinguished Fellow*

Thesis: “Observations of Disks around the Youngest Protostars: Characterizing Frequency, Dust Properties, and Magnetic Fields at the Earliest Times”

Advisor: Prof. Leslie Looney

**University of Michigan**, Ann Arbor, Michigan

2007 – 2011

**B.S. in Astrophysics and Astronomy**, *Michigan Tradition Award*

Graduated with High Honors, GPA: 3.544 / 4.000

Advisor: Prof. Sally Oey

Member: Women in Science and Engineering Residential Program (2007 – 2008)

## HIGHLIGHTS

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- ~\$634,473 total in funding — \$365,000 as Principal Investigator
- h-index = 29 — 60 total papers — 2484+ citations — average 42+ citations/paper
- first author papers average 73+ citations/paper (full list of publications available below)
- 7 papers with over 100 citations, including 1 first-author paper
- 35 external talks — 18 invited talks, including 3 reviews and 3 colloquia
- 19 approved proposals — 7 facilities — 203 hours total
- 10 total student mentees — 7 undergraduate — 3 graduate — 3 current

## ACTIVE RESEARCH AREAS

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- Observing properties of young protostellar disks still embedded in their larger-scale natal envelopes
- Investigating the influence of infalling envelope/streamers on disk structure/evolution and multiplicity
- Examining substructures in embedded disks to search for the earliest footholds of planet formation

## PROFESSIONAL APPOINTMENTS

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**National Science Foundation Astronomy & Astrophysics Postdoctoral Fellow**

2021 – Present

The University of Texas at Austin

Mentor: Assoc. Prof. Stella Offner

**Visiting Scientist**

2021 – Present

Max Planck Institute for Extraterrestrial Physics, Center for Astrochemical Studies

**Postdoctoral Researcher**

2017 – 2021

Max Planck Institute for Extraterrestrial Physics, Center for Astrochemical Studies

Advisor: Prof. Dir. Paola Caselli

<b>Graduate Research Assistant</b>	2011 – 2017
University of Illinois Astronomy Department	
<u>Advisor:</u> Prof. Leslie Looney, <u>Mentor:</u> Prof. You-Hua Chu	
<b>Graduate Student Grader</b>	2011 – 2015
University of Illinois Astronomy Department	

## FUNDING

~\$634,473 total — \$365,000 as Principal Investigator

<b>National Science Foundation Astronomy &amp; Astrophysics Postdoctoral Fellowship</b>	2021 - 2024
National Science Foundation Fellowship, \$310,000, AST-2102405, <i>Principal Investigator</i>	
<b>Conference: 21st Annual Symposium of the NSF AAPF Fellows</b>	2022
National Science Foundation Grant, \$44,473, AST-2236620, <i>Lead Author</i>	
<b>SOFIA Cycle 4 General Observing Grant</b>	2015
SOFIA Science Mission Operations, \$55,000 for Project #04_0170, <i>Science Principal Investigator</i>	
<b>ALMA NRAO Student Observing Support Fellowship</b>	2015
National Radio Astronomical Observatory, ~\$35,000 for one year of graduate stipend	
<b>VLA NRAO Student Observing Support Fellowship</b>	2013
National Radio Astronomical Observatory, ~\$35,000 for one year of graduate stipend	
<b>Illinois Distinguished Fellowship</b>	2011
University of Illinois, ~\$155,000 for three years of graduate stipend & tuition	

## AWARDS

<b>Best Poster Award</b>	2023
Protostars and Planets VII Conference, elected by popular vote from 647 posters	
<b>Mr. and Mrs. Hsiang-Pai and Wen-Hua Chu Department of Astronomy Excellence in Research Graduate Student Award</b>	2017
University of Illinois Astronomy Department	
<b>Excellence Award in Recognition of Academic Excellence &amp; Good Citizenship</b>	2016 & 2017
University of Illinois	
<b>Astronomy Undergraduate Research Award</b>	2011
University of Michigan Department of Astronomy	
<b>Astronomy Undergraduate Service Award</b>	2011
University of Michigan Department of Astronomy	

## TESTIMONIALS: RECENT WRITTEN EXPRESSIONS OF GRATITUDE

### Scientist at an American National Lab

- “[...] your nature [sic] paper on planets < 500k years old played a major role in motivating a ~\$5 million LANL proposal we just wrote to do 3D rad hydro sims of forming giant planets in PPDs (now we have to hope we get funding). Yours is a great result!” April 2023

### Postdoctoral Researcher

- “I will always be incredible [sic] thankful to you for teaching me how to write better and communicate better in proposals. If I write better now it is thanks to you. Period. You gave a skill that is so important and I am really so thankful for that.” Sep 2023

### Graduate Students

- “Thank you so much, Dom!! You've been so helpful and supportive. I hope I'll get to see you again physically and let me buy you a meal/drink when that happens!” May 2023
- “Your mega comments were useful to set my big goal in nicer words :) thanks a lot for all the help!” Oct 2023
- “Thanks a lot for such a nice message! It will definitely motivate me to continue with these things (and also to apply for postdocs more seriously :D). [...] Also, I should thank you for making streamers cool! [...] Let me know if you will be free to chat sometime.” Oct 2023

### Undergraduate Student

- “This summer has been a blast---looking back we did a lot of work---and while it may have been tedious at times, overall it felt like nothing at the time. Working with you and your high energy yet relaxed attitude made the time fly.” Aug 2023

### Teacher

- “You hit it ‘out of the park’ with your OKC Astro Club presentation on March 10th! We've received so many positive compliments. You spoke to the level of most Club members and for that, I'm so grateful. You also spoke eloquently and passionately regarding how to engage others in Astronomy and the need to do so!” Mar 2023

### Layperson

- “Thank you for your kind reply. You are so kind and gentle, I am really impressed. I will consider your advice seriously.” Nov 2023

## LEADERSHIP ON LARGE OBSERVING PROGRAMS

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### PROtostars & DIskS: Global Evolution (PRODIGE)

NOEMA, MPG-IRAM Observing Program L19MB, 620 hours, observations ongoing 2019 – Present  
Co-PIs: Paola Caselli & Thomas Henning

- Acting as the Primary Science Coordinator for co-PI Caselli's half of the program (32 Class 0/I targets)
- Drafted the proposal, defined scientific rationale, set observing strategy, and selected targets
- Developed calibration and imaging procedures
- Authored a 75pg+ data reduction and imaging cookbook for the program, to be released for public use
- Designed and organized Ph.D. and postdoc projects
- Organized a team meeting (June 2023) that resulted in 15+ new project ideas with in-hand data

### Fifty AU Study of the chemistry in the disk/envelope system of Solar-like protostars (FAUST)

ALMA, Large Program 2018.1.01205.L, 152 hours, observations complete 2018 – Present  
Co-PIs: Satoshi Yamamoto, Cecilia Ceccarelli, Claire Chandler, Claudio Codella & Nami Sakai

- Acting as the Primary Source Coordinator for 1 of 13 targets
- Managing advanced data reduction efforts to maximize science exploitation
- Identified primary science goals for multiple team projects

## EXTERNAL RESEARCH TALKS

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### 35 external talks — 18 invited talks, including 3 reviews and 3 colloquia

- (35) Rice University Department of Physics and Astronomy Seminar, **invited** Spring 2024
- (34) Niels Bohr Institute Starplan Seminar, **invited** Feb 2024
- (33) SUL4LIFE Kick-off Meeting, **invited** Jan 2024
- (32) 243rd Meeting of the American Astronomical Society Jan 2023  
22nd Annual NSF-AST Postdoctoral Fellows Symposium

(31) 243rd Meeting of the American Astronomical Society	Jan 2024
(30) Protostars and Planets VII Conference: Best Poster Award Prize Talk, <b>invited</b>	Apr 2023
(29) University of Michigan Department of Astronomy, <b>colloquium</b>	Feb 2023
(28) 241st Meeting of the American Astronomical Society	Jan 2023
(27) 241st Meeting of the American Astronomical Society, <b>invited</b> NRAO/ngVLA Special Session: <i>Chemical Probes of Astrophysical Systems</i>	Jan 2023
(26) From Clouds to Planets II: The Astrochemical Link, <b>review</b>	Oct 2022
(25) University of Michigan Star and Planet Formation Journal Club, <b>invited</b>	Mar 2022
(24) Jodrell Bank Centre for Astrophysics, <b>colloquium</b>	Mar 2022
(23) NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium	Jan 2022
(22) Gaps, Rings, Spirals, and Vortices: Structure Formation in Planet-Forming Disks, <b>review</b>	Oct 2021
(21) Puzzles of Star Formation, <b>invited</b>	Jul 2021
(20) European Astronomical Society Annual Meeting 2021, <b>review</b> Special Session: <i>Streamers: Thinking Outside the Planet-Forming Disk</i>	Jun 2021
(19) From Core to Disk 2	May 2021
(18) University of Illinois Astronomy Department, <b>colloquium</b>	Mar 2021
(17) Five Years after HL Tau: a New Era in Planet Formation	Dec 2020
(16) MPIA Disk Group Seminar, <b>invited</b>	Nov 2020
(15) Harvard-Smithsonian Center for Astrophysics SMA Seminar, <b>invited</b>	Sep 2020
(14) Europlanet Science Congress 2020	Sep 2020
(13) European Astronomical Society Annual Meeting 2020	Jun 2020
(12) Building Blocks of Planets 2020 Workshop, <b>invited</b>	Apr 2020
(11) ALMA2019: Science Results and Cross-Facility Synergies	Oct 2019
(10) European Week of Astronomy and Space Science (EWASS), <b>invited</b> Special Session: <i>The Physics and Chemistry of Class I Protostars in the ALMA Era</i>	Jun 2019
(9) National Radio Astronomical Observatory Lunch Seminar	Jan 2019
(8) Embedded Disk and Planet Formation Workshop: Leiden, <b>invited</b>	Jul 2017
(7) 229th Meeting of the American Astronomical Society	Jan 2017
(6) Harvard-Smithsonian Center for Astrophysics, <b>invited</b>	Dec 2016
(5) Half a Decade of ALMA: Cosmic Dawns Transformed Meeting	Sep 2016
(4) National Radio Astronomical Observatory Lunch Seminar	Feb 2016
(3) Midwest Magnetic Fields Workshop	May 2015
(2) AAS Workshop on Dense Cores: Origin, Evolution, and Collapse	Jul 2014
(1) 69th International Symposium on Molecular Spectroscopy	Jun 2014

## RESEARCH POSTERS

(9) Protostars and Planets VII Conference, <b>Best Poster Award</b>	Apr 2023
(8) Multi-Line Diagnostics of the Interstellar Medium Conference	Apr 2022

(7) Circumplanetary Disks and Satellite Formation II Conference	Mar 2021
(6) The Wonders of Star Formation Conference	Sep 2018
(5) 227th Meeting of the American Astronomical Society	Jan 2016
(4) Circumstellar Disks & Planet Formation Conference	Oct 2014
(3) 223rd Meeting of the American Astronomical Society	Jan 2014
(2) CARMA Science Symposium	Jul 2013
(1) 217th Meeting of the American Astronomical Society	Jan 2011

## INCLUSIVITY OR CAREER-FOCUSED TALKS AND PANELS

(5) Co-presenter of <i>Writing a Successful Observing Proposal</i> Coached students in the University of Texas at Austin Department of Astronomy	Mar 2023
(4) <i>Perspectives from a First-Generation Wolverine</i> , <b>invited</b> Discussed challenges first-generation students can face at the University of Michigan Department of Astronomy's Diversity, Equity & Inclusion Seminar Series	Feb 2023
(3) <i>How the Student Astronomical Society Changed My Life</i> Presented to University of Michigan undergraduates about hidden advantages of peer groups	Feb 2023
(2) Panelist of <i>The Magic Leap &amp; UT Austin Women in Natural Science Career Panel</i> Spoke with University of Texas at Austin undergraduates about career path and advancement strategies	Nov 2021
(1) Co-presenter of <i>Career Webinar for Ph.D. Students: How to Apply for Your First Postdoc</i> Presented to graduate students at the Max Planck Institute for Extraterrestrial Physics, the Max Planck Institute for Astrophysics, and the European Southern Observatory	Sep 2020

## PRESS COVERAGE

<b>Stars and Planets Grow Up as Siblings</b> , <a href="#">Max Planck Society press release</a> ➤ Picked up by news sites worldwide and covered in 15+ languages ➤ Highlighted in a 20-minute interview on the <i>John Bachelor Show</i> , aired on syndicated AM radio	2020
<b>A Growing Stellar System Directly Fed by the Mother Cloud</b> , <a href="#">Max Planck Society press release</a>	2020
<b>VLA Reveals Dramatic New Evidence about Star and Planet Formation</b> , <a href="#">NRAO press release</a>	2016

## APPROVED OBSERVING PROPOSALS AS PRINCIPAL INVESTIGATOR

**19 approved proposals — 7 facilities — 203 hours total**

(19) ALMA, Project 2022.1.01259.S, <u>Grade A</u> , <i>Are streamers common? An unbiased survey of protostellar envelopes in a star-forming region</i>	2022
(18) ALMA, Project 2022.1.00197.S, <u>Grade A</u> , <i>Are envelope-to-disk accretion streamers associated with magnetic fields in a young Class 0 protostar?</i>	2022
(17) ALMA, Project 2021.1.01707.S, <u>Grade B</u> , <i>Are envelope-to-disk accretion streamers associated with magnetic fields in a young Class 0 protostar?</i>	2021
(16) APEX, Project M9524C_107, <u>Grade A</u> , <i>Does a planet-forming Class I disk accrete from core scales?</i>	2021
(15) IRAM 30-meter, Project 112-20, <u>Grade A</u> , <i>Does an Accretion Streamer of a Planet-Forming Class I Disk Reach Core Scales?</i>	2020
(14) NOEMA, Project W20AG, <u>Grade B</u> , <i>Envelope to Disk: The Composition of Accretion</i>	2020

- (13) NOEMA, Project W19AK, Grade B, *Chemically and Kinematically Probing into the Disks of Two Class 0 Protostars* 2019
- (12) NOEMA, Project W19AG, Grade B, *Envelope to Disk: The Composition of Accretion* 2019
- (11) NOEMA, Project W18AS, Grade A, *The Origins of Complex Organic Molecule Emission in Protostars* 2018
- (10) NOEMA, Project W18AN, Grade B, *Linking the Stages of Star Formation: Kinematics and Chemistry of Class I Protostar TMC1A* 2018
- (9) ALMA, Project 2018.1.01634.S, Grade A, *Chemistry Associated with the Protostellar Disk with the Youngest-Known Dust Rings* 2018
- (8) ALMA, Project 2018.1.01348.S, Grade C, *Doubling the Number of Class 0/I Disks Through Line Observations of Perseus Candidates* 2018
- (7) ALMA, Project 2017.1.01078.S, Grade B, *Doubling the Number of Class 0/I Disks Through Line Observations of Perseus Candidates* 2017
- (6) SMA, Project 2017A-S044, B Rating, *First Detection of Disks around Class 0/I Protostars in Cepheus* 2017
- (5) ALMA, Project 2015.1.01512.S, Grade A, *Has Planet Formation Already Begun in the Class I Protostellar Phase?* 2015
- (4) ALMA, Project 2015.1.01053.S, Grade C, *Confirming the First Class 0 Circumbinary Disk* 2015
- (3) SOFIA, Project #04\_0170, Must Observe category, *FIR Polarization of Large-Scale Emission around Young Protostars: The TADPOL+E Survey* 2015
- (2) CARMA, Project c1188, Grade B, *Probing Magnetic Braking with the Disk of Class 0 Source L1527* 2013
- (1) CARMA, Project c1122, Grade C, *The Inner Envelope Kinematics of the Class 0 Source L1527* 2013

## ON-SITE OBSERVING EXPERIENCE

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**CARMA Observing Shifts**, 35 days 2013 – 2014

➤ Completed five week-long, 24 hours-a-day shifts which included controlling the telescope array, checking weather conditions, cooperatively taking data for other scientists, and assessing data quality

**CARMA Summer School** 2012

➤ Learned to operate the CARMA telescope array, designed and carried out first millimeter-wave observing project, received training in interferometric data reduction and analysis techniques

## TECHNICAL SKILLS

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**Facilities:** Extensive experience with ALMA, NOEMA, VLA, SMA, CARMA, IRAM-30m, APEX, SOFIA, *Spitzer*

**Observational techniques:** Skilled with advanced interferometric calibration and analysis including self-calibration of long-baseline data, handling polarization observations, and modeling in the *uv*-plane

**Astronomical software:** Proficient with CASA, GILDAS, MIRIAD, SAOImage DS9, IRAF, SMART, IMAGER

**Programming languages:** Comfortable with Python, C, IDL, shell-scripting, R, HTML



## TEACHING EXPERIENCE

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**Enrolled in TIDES Concentration in Teaching and Mentoring**, The University of Texas at Austin

- Covers formal pedagogy, inclusive teaching styles, observations, course design 2022 – Present

**Informal Instructor of Advanced Interferometric Techniques**, various institutions Ongoing

- One-on-one or group instruction, available on an as-needed basis
- Assisted at least 4 graduate students and at least 8 postdocs in the past and at present

**Guest Instructor**, The University of Texas at Austin

**Undergraduate Course for Science Majors**

- *Introductory Astronomy*, instructed 2 lectures Fall 2022

**Graduate Student Grader\***, University of Illinois, \*responsibilities included office hours

**Graduate Course**

- *Theoretical Stellar Physics* Spring 2015

**Upper-Level Undergraduate Courses for Astronomy Majors**

- *Astronomical Techniques* Spring 2012, Fall 2014
- *Solar System & Interstellar Medium* Spring 2013
- *Stellar Astrophysics* Fall 2011, Fall 2012

## MENTORING EXPERIENCE

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**10 total students — 7 undergraduate — 3 graduate — 3 current**

**Postdoc Mentor to Undergraduate Summer Students**, The University of Texas at Austin

**Primary Supervisor, REU internship program**

- **Andrew Milne** 2023 – Present  
B.S. candidate at University of Iowa

**Primary Supervisor, TAURUS internship program**

- **Cayden Kirkpatrick** 2022 – Present  
B.S. candidate at University of Wisconsin-Madison

**Postdoc Mentor to Graduate Students**, Max Planck Institute for Extraterrestrial Physics

**Research Mentor, with direct supervision role**

- **Maria Teresa Valdivia-Mena** 2020 – Present  
Ph.D. candidate at Max Planck Institute for Extraterrestrial Physics
- **Carolina Agurto Gangas** – FONDECYT Postdoc Fellow at U. de Chile 2018 – 2020  
Ph.D. in 2020 from Ludwig-Maximilians-Universität München

**Research Mentor**

- **Joaquin Zamponi** – Postdoc at Max Planck Institute for Extraterrestrial Physics 2019 – 2023  
Ph.D. in 2023 from Ludwig-Maximilians-Universität München

**Graduate Mentor to Undergraduate Students**, University of Illinois

**Research Mentor**

- **John DeVries** – Currently: Electrical Engineer at Ecliptic Enterprises Corp. 2017  
M.S. in 2019 from California State University, Los Angeles
- **Jiayin Dong** – Currently: Simons Foundation Flatiron Institute Research Fellow 2015 – 2016  
Ph.D. in 2022 from Pennsylvania State University
- **Andrew Nadolski** – Currently: Process Engineer at Intel Corp. 2014  
Ph.D. in 2020 from University of Illinois
- **Zhuchang Zhan** – Currently: Data Scientist at Apple 2013  
Ph.D. in 2021 from Massachusetts Institute of Technology

**Women in Astronomy Mentor**

- **Sushma Adari** – Currently: Data Scientist at SpiderRock Advisors 2014 – 2017  
B.S. in 2018 from University of Illinois

**PROFESSIONAL SERVICE**

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**Department Level****Member of Dissertation Advisory Committees**

- Maria Teresa Valdivia-Mena, Max Planck Institute for Extraterrestrial Physics 2020 – Present
- Joaquin Zamponi, Max Planck Institute for Extraterrestrial Physics 2019 – 2023

**Organizer of the ExoUpdate Discussion Hour**, University of Texas at Austin 2023 – Present

**Co-author of Disks Chapter of Scientific Report for Institute Advisory Board**, Max Planck Institute for Extraterrestrial Physics 2019

**Graduate Student Representative to the Faculty** 2016 – 2017

- University of Illinois Astronomy Department, elected by peers

**Treasurer of Women in Astronomy**, University of Illinois Astronomy Department 2014 – 2017

**University Level**

**Co-organizer of the Star and Planet Formation Seminar Series** 2018 – 2021

- Joint seminar series coordinated between the Max Planck Institute for Extraterrestrial Physics, the Ludwig-Maximilians-Universität München, and the European Southern Observatory

**University of Illinois Fellowship Board Executive Committee** 2014

- Served as a student panelist to select campus-wide graduate fellowship recipients

**National Level**

**Lead Conference Organizer: 21st Annual Symposium of the NSF AAPF Fellows** 2022 – 2023

- Splinter Session at the 241st Meeting of the American Astronomical Society

**Chambliss Award Poster Judge**, 241st Meeting of the American Astronomical Society 2023

**Grant Panel Reviewer**

- NSF Astronomy and Astrophysics Grant Program 2022
- NASA Research Opportunities in Space and Earth Sciences 2022

**International Level**

**Scientific Organizing Committee Member** 2023 – Present

- Multiplicity in Young Stars Conference, Niels Bohr Institute, Copenhagen, Denmark

**Scientific Organizing Committee Member** 2023 – Present

- Spatio-spectral modeling of ALMA data cubes: Insights and Challenges for ALMA-2030, Charlottesville, VA, USA

**Journal Reviewer:** Nature, The Astrophysical Journal, The Astrophysical Journal Letters 2016 – Present

**SELECT OUTREACH ACTIVITIES**

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**AstroHardCore: Streamed Monthly Astronomy Webinars** Coming 2025

- Structuring a twitch.tv (a streaming site commonly associated with videogames) variety outreach program to bring astronomy to the screens of the general public, on a familiar & interactive platform
- Currently building a network of academic and academic-adjacent astronomers passionate about outreach and willing to participate as guest stars on the program



- Astronomy on Tap: Executive Committee Member**, Austin, Texas 2023 – Present
- Astronomy on Tap: News Segment co-Host**, Austin, Texas 2023 – Present
- Co-host short segments between main Astronomy on Tap speakers
- AstroCore: Modules for High School Classrooms**, The University of Texas at Austin 2022 – Present
- Developing modules of worksheets, lesson plans, activities, and teachers' notes aimed at bringing astronomy into rural classrooms; modules will be published online for broad use by any teacher
  - Astronomy themes are used to convey core math and science concepts required by Texas state education standards for graduation; rural Texas teachers will be contacted to raise program awareness
- Guest Speaker**, Oklahoma City Astronomy Club, hosted at Science Museum Oklahoma 2023
- Presented *A Journey through the Many Size Scales of Star and Planet Formation*
- YouTube Video Discussion: Science in *Stowaway***, Max Planck Society, 2-part video interview 2021
- Commented on the scientific accuracy of concepts portrayed in *Stowaway*, a feature-length film
  - Recorded on-set at the Bavaria Filmstadt studio, collaboration between YouTuber Doktor Whatson and the Max Planck Society, German dubbing
- Astronomy on Tap: Speaker**, Munich, Germany 2020
- Presented *Baby Photos: Star Formation Caught in the Act*, aimed at an audience of the general public
- Public Total Eclipse Viewing**, University of Illinois 2017
- Aided with advanced planning of logistics for off-campus event, led hands-on demonstrations
- Correctional Facility Eclipse Outreach**, Harrisburg Juvenile and Vienna Correctional Facilities 2017
- Engaged with incarcerated juvenile and adult individuals in the path of totality of the upcoming eclipse
- Girls Explore Astronomy Summer Camp**, University of Illinois 2016
- Assisted with organization and presented portions of a week-long astronomy summer science camp for 10-12-year-old girls, coordinated with the Champaign Park District
- Role Model Video Series**, NRAO, video interview 2016
- Discussed career path and past challenges faced, for NRAO website aimed at the public
- The American Astronomical Society Astronomy Ambassadors Program Workshop** 2016
- Participated in formal outreach training aimed at early career astronomers
- I-RISE Summer Teacher Workshops**, University of Illinois 2012 & 2013
- Led, organized, and lectured at two-day workshops aimed at middle and high school math and science teachers to incorporate astronomy throughout their curricula

## INTERESTS

- Effective leadership and mentoring, watercolor painting, wine, artistic films, video editing, video games (including the Legend of Zelda, Mario Kart, and Pokémon)

## PUBLICATIONS

[also available on ADS](#)

**h-index = 29 — 60 total papers published — 2484+ citations — average 42+ citations/paper**

### FIRST AUTHOR PAPERS — average 73+ citations/paper

- *Four annular structures in a protostellar disk with an age <500,000 years*  
**D. M. Segura-Cox**, A. Schmiedeke, J. E. Pineda, I. W. Stephens, M. Fernández-López, L. W. Looney, P. Caselli, Z.-Y. Li, L. G. Mundy, W. Kwon, & R. J. Harris  
 Nature, 586, 228 (2020) | **104+ citations**

- *The VLA Nascent Disk and Multiplicity Survey of Perseus Protostars (VANDAM). V. 18 Candidate Disks around Class 0 and I Protostars in the Perseus Molecular Cloud*  
**D. M. Segura-Cox**, L. W. Looney, J. J. Tobin, Z.-Y. Li, R. J. Harris, S. Sadavoy, M. M. Dunham, C. Chandler, K. Kratter, L. Perez, & C. Melis  
 ApJ, 866, 161 (2018) | **64+ citations**
- *The VLA Nascent Disk and Multiplicity Survey: First Look at Resolved Candidate Disks around Class 0 and I Protostars in the Perseus Molecular Cloud*  
**D. M. Segura-Cox**, R. J. Harris, J. J. Tobin, L. W. Looney, Z.-Y. Li, C. Chandler, K. Kratter, M. M. Dunham, S. Sadavoy, L. Perez, & C. Melis  
 ApJ, 817, 14 (2016) | **55+ citations**
- *The Magnetic Field in the Class 0 Protostellar Disk of L1527*  
**D. M. Segura-Cox**, L. W. Looney, I. W. Stephens, M. Fernández-López, W. Kwon, J. J. Tobin, Z.-Y. Li, & R. Crutcher  
 ApJL, 798, 2 (2015) | **61+ citations**
- *A Streamer Impacts a Ringed Class I Protostellar Disk: a Molecular Journey at Disk Scales*  
**D. M. Segura-Cox**, J. E. Pineda, P. Caselli, M. T. Valdivia-Mena, M. J. Maureira, A. Schmiedeke, I. W. Stephens, L. W. Looney, & M. Fernández-López  
 in preparation, expected submission spring 2024
- *PRODIGE - Envelope to Disk with NOEMA V. Twin Streamers Feed a Class 0 Protostellar Disk*  
**D. M. Segura-Cox** & the PRODIGE collaboration  
 in preparation, expected submission summer 2024
- *An Observational and Statistical Test of Infall-Driven Gravitational Instabilities*  
**D. M. Segura-Cox**, S. S. R. Offner, K. M. Kratter  
 in preparation, expected submission winter 2024

**CO-AUTHOR PAPERS WITH SIGNIFICANT CONTRIBUTION** (★ indicates mentee student-led paper; ♦ indicates mentored papers led by other postdocs)

- (★21) *Exploring the dust grain size and polarization mechanism in the hot and massive Class 0 disk IRAS 16293-2422 B*  
 J. Zamponi, J. M. Maureira, H. B. Liu, B. Zhao, **D. M. Segura-Cox**, C.-H. Ko, & P. Caselli  
 arXiv:2311.02521
- (★20) *Flow of gas detected from beyond the filaments to protostellar scales in Barnard 5*  
 M. T. Valdivia-Mena, J. E. Pineda, **D. M. Segura-Cox**, P. Caselli, A. Schmiedeke, S. Choudhury, S. S. R. Offner, R. Neri, A. Goodman, & G. A. Fuller  
 A&A, 677, 97 (2023)
- (♦19) *PRODIGE - Envelope to Disk with NOEMA II. Small-scale temperature structure and a streamer feeding the SVS13A protobinary using CH<sub>3</sub>CN and DCN*  
 T.-H. Hsieh, **D. M. Segura-Cox**, J. E. Pineda, P. Caselli, L. Bouscasse, R. Neri, A. López-Sepulcre, M. T. Valdivia-Mena, M. J. Maureira, T. Henning (+11 co-authors)  
 A&A, 669, 137 (2023)
- (18) *Dust Hot Spots at 10 au Scales around the Class 0 Binary IRAS 16293-2422 A: A Departure from the Passive Irradiation Model*  
 M. J. Maureira, M. Gong, J. E. Pineda, H. B. Liu, K. Silsbee, P. Caselli, J. Zamponi, **D. M. Segura-Cox**, & A. Schmiedeke  
 ApJL, 941, 2 (2022)

- (★17) *PRODIGE - envelope to disk with NOEMA. I. A 3000 au streamer feeding a Class I protostar*  
M. T. Valdivia-Mena, J. E. Pineda, **D. M. Segura-Cox**, P. Caselli, R. Neri, A. López-Sepulcre, N. Cunningham, L. Bouscasse, D. Semenov, T. Henning (+12 co-authors)  
A&A, 667, 12 (2022)
- (16) *ALMA-DOT VI: Accretion shocks in the disk of DG Tau and HL Tau*  
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