Dominique M. Segura-Cox

Independent Postdoctoral Prize Fellow
The University of Texas at Austin
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EDUCATION

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

- ~$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

- 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

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

Graduate Research Assistant 2011 – 2017
University of Illinois Astronomy Department
Advisor: Prof. Leslie Looney, Mentor: Prof. You-Hua Chu

Graduate Student Grader 2011 – 2015
University of Illinois Astronomy Department

FUNDING

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

National Science Foundation Astronomy & Astrophysics Postdoctoral Fellowship 2021 - 2024
National Science Foundation Fellowship, $310,000, AST–2102405, *Principal Investigator*

Conference: 21st Annual Symposium of the NSF AAPF Fellows 2022
National Science Foundation Grant, $44,473, AST–2236620, *Lead Author*

SOFIA Cycle 4 General Observing Grant 2015
SOFIA Science Mission Operations, $55,000 for Project #04_0170, *Science Principal Investigator*

ALMA NRAO Student Observing Support Fellowship 2015
National Radio Astronomical Observatory, ~$35,000 for one year of graduate stipend

VLA NRAO Student Observing Support Fellowship 2013
National Radio Astronomical Observatory, ~$35,000 for one year of graduate stipend

Illinois Distinguished Fellowship 2011
University of Illinois, ~$155,000 for three years of graduate stipend & tuition

AWARDS

Best Poster Award 2023
Protostars and Planets VII Conference, elected by popular vote from 647 posters

Mr. and Mrs. Hsiang-Pai and Wen-Hua Chu Department of Astronomy Excellence in Research Graduate Student Award 2017
University of Illinois Astronomy Department

Excellence Award in Recognition of Academic Excellence & Good Citizenship 2016 & 2017
University of Illinois

Astronomy Undergraduate Research Award 2011
University of Michigan Department of Astronomy

Astronomy Undergraduate Service Award 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

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

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, **invited**	Apr 2023
(**29**) University of Michigan Department of Astronomy, **colloquium**	Feb 2023
(**28**) 241st Meeting of the American Astronomical Society	Jan 2023
(**27**) 241st Meeting of the American Astronomical Society, **invited** NRAO/ngVLA Special Session: *Chemical Probes of Astrophysical Systems*	Jan 2023
(**26**) From Clouds to Planets II: The Astrochemical Link, **review**	Oct 2022
(**25**) University of Michigan Star and Planet Formation Journal Club, **invited**	Mar 2022
(**24**) Jodrell Bank Centre for Astrophysics, **colloquium**	Mar 2022
(**23**) NSF Astronomy & Astrophysics Postdoctoral Fellows Symposium	Jan 2022
(**22**) Gaps, Rings, Spirals, and Vortices: Structure Formation in Planet-Forming Disks, **review**	Oct 2021
(**21**) Puzzles of Star Formation, **invited**	Jul 2021
(**20**) European Astronomical Society Annual Meeting 2021, **review** Special Session: *Streamers: Thinking Outside the Planet-Forming Disk*	Jun 2021
(**19**) From Core to Disk 2	May 2021
(**18**) University of Illinois Astronomy Department, **colloquium**	Mar 2021
(**17**) Five Years after HL Tau: a New Era in Planet Formation	Dec 2020
(**16**) MPIA Disk Group Seminar, **invited**	Nov 2020
(**15**) Harvard-Smithsonian Center for Astrophysics SMA Seminar, **invited**	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, **invited**	Apr 2020
(**11**) ALMA2019: Science Results and Cross-Facility Synergies	Oct 2019
(**10**) European Week of Astronomy and Space Science (EWASS), **invited** Special Session: *The Physics and Chemistry of Class I Protostars in the ALMA Era*	Jun 2019
(**9**) National Radio Astronomical Observatory Lunch Seminar	Jan 2019
(**8**) Embedded Disk and Planet Formation Workshop: Leiden, **invited**	Jul 2017
(**7**) 229th Meeting of the American Astronomical Society	Jan 2017
(**6**) Harvard-Smithsonian Center for Astrophysics, **invited**	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, **Best Poster Award**	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 *Writing a Successful Observing Proposal* Mar 2023
Coached students in the University of Texas at Austin Department of Astronomy

⟨4⟩ *Perspectives from a First-Generation Wolverine*, **invited** Feb 2023
Discussed challenges first-generation students can face at the University of Michigan Department of Astronomy's Diversity, Equity & Inclusion Seminar Series

⟨3⟩ *How the Student Astronomical Society Changed My Life* Feb 2023
Presented to University of Michigan undergraduates about hidden advantages of peer groups

⟨2⟩ Panelist of *The Magic Leap & UT Austin Women in Natural Science Career Panel* Nov 2021
Spoke with University of Texas at Austin undergraduates about career path and advancement strategies

⟨1⟩ Co-presenter of *Career Webinar for Ph.D. Students: How to Apply for Your First Postdoc* Sep 2020
Presented to graduate students at the Max Planck Institute for Extraterrestrial Physics, the Max Planck Institute for Astrophysics, and the European Southern Observatory

PRESS COVERAGE

Stars and Planets Grow Up as Siblings, Max Planck Society press release 2020
- Picked up by news sites worldwide and covered in 15+ languages
- Highlighted in a 20-minute interview on the *John Bachelor Show*, aired on syndicated AM radio

A Growing Stellar System Directly Fed by the Mother Cloud, Max Planck Society press release 2020

VLA Reveals Dramatic New Evidence about Star and Planet Formation, NRAO press release 2016

APPROVED OBSERVING PROPOSALS AS PRINCIPAL INVESTIGATOR

19 approved proposals — 7 facilities — 203 hours total

⟨19⟩ **ALMA**, Project 2022.1.01259.S, Grade A, *Are streamers common? An unbiased survey of protostellar envelopes in a star-forming region* 2022

⟨18⟩ **ALMA**, Project 2022.1.00197.S, Grade A, *Are envelope-to-disk accretion streamers associated with magnetic fields in a young Class 0 protostar?* 2022

⟨17⟩ **ALMA**, Project 2021.1.01707.S, Grade B, *Are envelope-to-disk accretion streamers associated with magnetic fields in a young Class 0 protostar?* 2021

⟨16⟩ **APEX**, Project M9524C_107, Grade A, *Does a planet-forming Class I disk accrete from core scales?* 2021

⟨15⟩ **IRAM 30-meter**, Project 112-20, Grade A, *Does an Accretion Streamer of a Planet-Forming Class I Disk Reach Core Scales?* 2020

⟨14⟩ **NOEMA**, Project W20AG, Grade B, *Envelope to Disk: The Composition of Accretion* 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

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

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

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

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

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

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 CH3CN 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*
A. Garufi, L. Podio, C. Codella, **D. M. Segura-Cox**, M. Vander Donckt, S. Mercimek, F. Bacciotti, D. Fedele, M. Kasper, J. E. Pineda (+2 co-authors)
A&A, 658, 104 (2022)

⟪**15**⟫ *A protostellar system fed by a streamer of 10,500 au length*
J. E. Pineda, **D. M. Segura-Cox**, P. Caselli, N. Cunningham, B. Zhao, A. Schmiedeke, M. J. Maureira, & R. Neri
Nature Astronomy, 4, 1158 (2020)

⟪**14**⟫ *Dust masses of young disks: constraining the initial solid reservoir for planet formation*
L. Tychoniec, C. F. Manara, G. P. Rosotti, E. F. van Dishoeck, A. J. Cridland, T.-H. Hsieh, N. M. Murillo, **D. M. Segura-Cox**, S. E. van Terwisga, & J. J. Tobin
A&A, 640, 19 (2020)

⟪♦**13**⟫ *Orbital and mass constraints of the young binary system IRAS 16293-2422 A*
M. J. Maureira, J. E. Pineda, **D. M. Segura-Cox**, P. Caselli, L. Testi, G. Lodato, L. Loinard, & A. Hernandez-Gomez
ApJ, 897, 59 (2020)

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E. Bianchi, C. Ceccarelli, C. Codella, A. López-Sepulcre, S. Yamamoto, N. Balucani, P. Caselli, L. Podio, R. Neri, R. Bachiller (+5 co-authors including **D. M. Segura-Cox**)
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S. Spear, M. J. Maureira, H. Arce, J. E. Pineda, M. Dunham, P. Caselli, & **D. M. Segura-Cox**
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A. Schmiedeke, J. E. Pineda, P. Caselli, H. G. Arce, G. A. Fuller, A. A. Goodman, M. J. Maureira, S. S. R. Offner, **D. M. Segura-Cox**, & D. Seifried
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