Dominique M. Segura-Cox

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EDUCATION

Ph.D. in Astronomy – University of Illinois, Champaign-Urbana, Illinois 2011 – 2017
Illinois Distinguished Fellow
Thesis: "Observations of Disks around the Youngest Protostars: Characterizing Frequency, Dust Properties, and Magnetic Fields at the Earliest Times"
Advisor: Leslie Looney

B.S. in Astrophysics and Astronomy – University of Michigan, Ann Arbor, Michigan 2007 – 2011
Michigan Tradition Scholar
Graduated with High Honors

PROFESSIONAL APPOINTMENTS

National Science Foundation Astronomy & Astrophysics Postdoctoral Fellow 2021 – Present
University of Texas at Austin

Postdoctoral Researcher 2017 – 2021
Max Planck Institute for Extraterrestrial Physics, Center for Astrochemical Studies

Graduate Research Assistant 2011 – 2017
University of Illinois Astronomy Department

ACTIVE RESEARCH AREAS

- Observing young protostellar disks still embedded in their larger-scale natal envelopes
- Investigating the influence of accretion from envelopes on disk structure and evolution
- Examining substructures in embedded disks to search for the earliest footholds of planet formation

FELLOWSHIPS & GRANTS

~$580,000 total — $355,000 as Principal Investigator

National Science Foundation Astronomy & Astrophysics Postdoctoral Fellowship 2021 - 2024
National Science Foundation, $300,000, *Principal Investigator*

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

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 and Service Award 2011
University of Michigan Department of Astronomy

EXTERNAL TALKS

24 external talks — 11 invited talks: 2 reviews, 1 colloquium

⟨**24**⟩ 239th Meeting of the American Astronomical Society (AAS), **invited** postponed
NRAO/ngVLA Special Session: *Chemical Probes of Astrophysical Systems*

⟨**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 (EAS) Annual Meeting 2021, **review** Jun 2021
Special Session: *Streamers: Thinking Outside the Planet-Forming Disk*

⟨**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 (EAS) 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** Jun 2019
Special Session: *The Physics and Chemistry of Class I Protostars in the ALMA Era*

⟨**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 (AAS) 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

APPROVED OBSERVING PROPOSALS AS PRINCIPAL INVESTIGATOR

16 proposals — 7 facilities — 184.1 hours total

⟪**16**⟫ *Are envelope-to-disk accretion streamers associated with magnetic fields in a young Class 0 protostar?* 2021
ALMA, Project 2021.1.01707.S

⟪**15**⟫ *Does a planet-forming Class I disk accrete from core scales?* 2021
APEX, Project M9524C_107

⟪**14**⟫ *Does an Accretion Streamer of a Planet-Forming Class I Disk Reach Core Scales?* 2020
IRAM 30-meter, Project 112-20

⟪**13**⟫ *Chemically and Kinematically Probing into the Disks of Two Class 0 Protostars* 2020
NOEMA, Project W19AK

⟪**11 & 12**⟫ *Envelope to Disk: The Composition of Accretion* 2019 & 2020
NOEMA, Projects W19AG & W20AG

⟪**10**⟫ *The Origins of Complex Organic Molecule Emission in Protostars* 2018
NOEMA, Project W18AS

⟪**9**⟫ *Linking the Stages of Star Formation: Kinematics and Chemistry of the Class I Protostar TMC1A* 2018
NOEMA, Project W18AN

⟪**8**⟫ *Chemistry Associated with the Protostellar Disk with the Youngest-Known Ringed Dust Structure* 2018
ALMA, Project 2018.1.01634.S

⟪**7**⟫ *Doubling the Number of Class 0/I Disks Through Line Observations of Perseus Candidates* 2017
ALMA, Project 2018.1.01348.S

⟪**6**⟫ *First Detection of Disks around Class 0/I Protostars in Cepheus* 2017
SMA, Project 2017A-S044

⟪**5**⟫ *Has Planet Formation Already Begun in the Class I Protostellar Phase?* 2015
ALMA, Project 2015.1.01512.S

⟪**4**⟫ *Confirming the First Class 0 Circumbinary Disk* 2015
ALMA, Project 2015.1.01053.S

⟪**3**⟫ *FIR Polarization of Large-Scale Emission around Young Protostars: The TADPOL+E Survey* 2015
SOFIA, Project #04_0170

⟪**2**⟫ *Probing Magnetic Braking with the Disk of Class 0 Source L1527* 2013
CARMA, Project c1188

⟪**1**⟫ *The Inner Envelope Kinematics of the Class 0 Source L1527* 2013
CARMA, Project c1122

LARGE OBSERVING PROGRAMS WITH LEADERSHIP ROLES

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 a main observing contact and developing calibration, data reduction, and imaging strategies
- Contributed heavily to the proposal writing, scientific rationale, observing strategy, and target selection

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 ongoing 2018 – Present
Co-PIs: Satoshi Yamamoto, Cecilia Ceccarelli, Claire Chandler, Claudio Codella & Nami Sakai
- Leading the data reduction and science exploitation for 1 of 13 targets, managing team efforts

ON-SITE OBSERVING EXPERIENCE

CARMA Observing Shifts, 30+ 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, reducing polarized observations, and studies in the *uv*-plane

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

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

MENTORING & TEACHING EXPERIENCE

Mentor to Graduate Students, Max Planck Institute for Extraterrestrial Physics
- Research Mentor, with direct supervision role
  - Maria Teresa Valdivia-Mena – *Topic: observing envelope to disk infall* 2020 – Present
  - Carolina Agurto Gangas – *Topic: modeling dust in envelopes and disks* 2018 – 2020
- Research Mentor
  - Joaquin Zamponi – *Topic: producing simulated observations of disks* 2019 – Present

Graduate Mentor to Undergraduate Students, University of Illinois
- Research Mentor
  - John DeVries – *Topic: calibrating and imaging VLA continuum data* 2017
  - Jiayin Dong – *Topic: imaging Class II dust disks with ALMA* 2015 – 2016
  - Andrew Nadolski – *Topic: measuring outflow kinematics with CARMA data* 2014
  - Zhuchang Zhan – *Topic: identifying outflows with CARMA data* 2013
- Women in Astronomy Mentor
  - Sushma Adari 2014 – 2017

Teaching Assistant, University of Illinois
- Graduate Course
  - *Theoretical Stellar Physics* Spring 2015
- Upper-Division Undergraduate Courses
  - *Astronomical Techniques* Spring 2012, Fall 2014
  - *Solar System & Interstellar Medium* Spring 2013
  - *Stellar Astrophysics* Fall 2011, Fall 2012

PROFESSIONAL SERVICE

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 – Present

Peer Reviewer 2016 – Present
- Nature, The Astrophysical Journal, The Astrophysical Journal Letters

Panelist of *The Magic Leap & UT Austin Women in Natural Science Career Panel* 2021
- Spoke with UT Austin undergraduate students about career path and advancement strategies

MPE-ESO-LMU Star and Planet Formation Seminar Co-organizer, Max Planck Institute for Extraterrestrial Physics 2018 – 2021

Co-presenter of *Career Webinar for Ph.D. Students: How to Apply for Your First Postdoc* 2020
- Presented to MPE, MPA, and ESO students

Graduate Student Representative to the Faculty, University of Illinois Astronomy Department 2016 – 2017
- Elected by peers

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

University of Illinois Fellowship Board Executive Committee 2014
- Served as a student panelist to select campus-wide graduate fellowship recipients

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
- 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

SELECTED OUTREACH ACTIVITIES

YouTube Video Discussion: Science in *Stowaway*, Max Planck Society, video part 1, video part 2 2021
- Commented on the scientific accuracy of concepts portrayed in *Stowaway*, a feature-length film
- Recorded on-set at the Bavaria Filmstadt studio as a two-part video collaboration series produced by German science YouTuber Doktor Whatson and the Max Planck Society, German dubbing

Astronomy on Tap Speaker, Max Planck Institute for Extraterrestrial Physics 2020
- Presented *Baby photos: Star Formation Caught in the Act*, aimed at an audience of the general public
- Gave interactive lecture and answered layperson level questions

Public Total Eclipse Viewing, University of Illinois 2017
- Aided with advanced planning logistics for off-campus event, lead hands-on demonstrations

Correctional Facility Eclipse Outreach, Harrisburg Juvenile Correctional Facility and the adult Vienna Correctional Facility 2017
- Engaged with incarcerated individuals in the path of totality about 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

PUBLICATIONS

also available on ADS

h-index = 24 — 47 total papers — 1544+ citations — average 34+ citations/paper

FIRST AUTHOR PAPERS — 180+ citations — average 45+ citations/paper

(**4**) *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) | **34+ citations**

(**3**) *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) | **40+ citations**

(**2**) *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) | **48+ citations**

(**1**) *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) | **58+ citations**

CO-AUTHOR PAPERS WITH SIGNIFICANT CONTRIBUTION

(**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)
arXiv:2110.13820 (2021)

(**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)

⟪**12**⟫ *The GRAVITY Young Stellar Object survey I. Probing the disks of Herbig Ae/Be stars at terrestrial orbits*
K. Perraut, L. Labadie, B. Lazareff, L. Klarmann, **D. M. Segura-Cox**, M. Benisty, J. Bouvier, W. Brandner, A. Caratti o Garatti, P. Caselli (+70 co-authors)
A&A, 632, 53 (2019)

⟪**11**⟫ *Gas flow and accretion via spiral streamers and circumstellar disks in a young binary protostar*
F. O. Alves, P. Caselli, J. M. Girart, **D. M. Segura-Cox**, G. A. P. Franco, A. Schmiedeke, & B. Zhao
Science, 366, 6461 (2019)

⟪**10**⟫ *The specific angular momentum radial profile in dense cores: improved initial conditions for disk formation*
J. E. Pineda, B. Zhao, A. Schmiedeke, **D. M. Segura-Cox**, P. Caselli, P. C. Myers, J. Tobin, & M. Dunham
ApJ, 822, 103 (2019)

⟪**9**⟫ *The Mass Evolution of Protostellar Disks and Envelopes in the Perseus Molecular Cloud*
B. C. Andersen, I. W. Stephens, M. M. Dunham, R. Pokhrel, J. K. Jorgensen, S. Frimann, **D. M. Segura-Cox**, P. C. Myers, T. L. Bourke, J. J. Tobin, & L. Tychoniec
ApJ, 873, 54 (2019)

⟪**8**⟫ *The VLA Nascent Disk and Multiplicity Survey of Perseus Protostars (VANDAM). IV. Free-Free Emission from Protostars: Links to Infrared Properties, Outflow Tracers, and Protostellar Disk Masses*
L. Tychoniec, J. J. Tobin, A. Karska, C. Chandler, M. M. Dunham, R. J. Harris, K. M. Kratter, Z.-Y. Li, L. W. Looney, C. Melis (+4 co-authors including **D. M. Segura-Cox**)
ApJS, 238, 19 (2018)

⟪**7**⟫ *The VLA Nascent Disk And Multiplicity Survey of Perseus Protostars (VANDAM). III. Extended Radio Emission from Protostars in Perseus*
L. Tychoniec, J. J. Tobin, A. Karska, C. Chandler, M. M. Dunham, Z.-Y. Li, L. W. Looney, **D. M. Segura-Cox**, R. J. Harris, C. Melis, & S. I. Sadavoy
ApJ, 852, 18 (2018)

⟪**6**⟫ *The VLA Nascent Disk and Multiplicity Survey of Perseus Protostars (VANDAM). II. Multiplicity of Protostars in the Perseus Molecular Cloud*
J. J. Tobin, L. W. Looney, Z.-Y. Li, C. J. Chandler, M. M. Dunham, **D. M. Segura-Cox**, S. I. Sadavoy, C. Melis, R. J. Harris, K. Kratter, & L. Perez
ApJ, 818, 73 (2016)

⟪**5**⟫ *The Runaways and Isolated O-Type Star Spectroscopic Survey of the SMC (RIOTS4)*
J. B. Lamb, M. S. Oey, **D. M. Segura-Cox**, A. S. Graus, D. C. Kiminki, J. B. Golden-Marx, & J. Wm. Parker
ApJ, 817, 113 (2016)

⟪**4**⟫ *High-resolution 8 mm and 1 cm Polarization of IRAS 4A from the VLA Nascent Disk and Multiplicity (VANDAM) Survey*
E. G. Cox, R. J. Harris, L. W. Looney, **D. M. Segura-Cox**, J. J. Tobin, Z.-Y. Li, L. Tychoniec, C. J. Chandler, M. M. Dunham, K. Kratter (+3 co-authors)
ApJ, 814, 28 (2015)

⟪**3**⟫ *CARMA Large Area Star Formation Survey: Structure and Kinematics of Dense Gas in Serpens Main*
K. I. Lee, M. Fernández-López, S. Storm, L. W. Looney, L. G. Mundy, **D. M. Segura-Cox**, P. J. Teuben, E. Rosolowsky, H. G. Arce, E. C. Ostriker (+14 co-authors)
ApJ, 797, 76 (2014)

⟪**2**⟫ *Spitzer Observations of Dust Emission from H II Regions in the Large Magellanic Cloud*
I. W. Stephens, J. M. Evans, R. Xue, Y.-H. Chu, R. A. Gruendl, & **D. M. Segura-Cox**
ApJ, 784, 147 (2014)

⟪**1**⟫ *The Initial Mass Function of Field OB Stars in the Small Magellanic Cloud*
J. B. Lamb, M. S. Oey, A. A. Graus, F. C. Adams, & **D. M. Segura-Cox**
ApJ, 763, 101 (2013)

CO-AUTHOR PAPERS AS CONTRIBUTING AUTHOR

⟪**27**⟫ *The VLA/ALMA Nascent Disk and Multiplicity (VANDAM) Survey of Orion Protostars V. A Characterization of Protostellar Multiplicity*
J. J. Tobin, S. R. Offner, K. M. Kratter, S. T. Megeath, P. D. Sheehan, L. W. Looney, A. K. Diaz-Rodriguez, M. Osorio, G. Anglada, S. I. Sadavoy (+9 co-authors including **D. M. Segura-Cox**)
arXiv:2111.05801 (2021)

⟪**26**⟫ *VLA and NOEMA view of the Bok Globule CB 17: the starless nature of a proposed FHSC candidate*
S. Spear, M. J. Maureira, H. Arce, J. E. Pineda, M. Dunham, P. Caselli, & **D. M. Segura-Cox**
ApJ, 923, 231 (2021)

⟪**25**⟫ *The GRAVITY Young Stellar Object Survey. VI. Mapping the variable inner disk of HD 163296 at sub-au scales*
J. Sanchez-Bermudez, A. Caratti o Garatti, R. Garcia Lopez, K. Perraut, L. Labadie, M. Benisty, W. Brandner, C. Dougados, P. J. V. Garcia, T. Henning (+46 co-authors including **D. M. Segura-Cox**)
A&A, 654, 97 (2021)

⟪**24**⟫ *HAWC+/SOFIA Polarimetry in L1688: Relative Orientation of Magnetic Field and Elongated Cloud Structure*
D. Lee, M. Berthoud, C.-Y. Chen, E. G. Cox, J. A. Davidson, F. J. Encalada, L. M. Fissel, R. Harrison, W. Kwon, D. Li (+7 co-authors including **D. M. Segura-Cox**)
ApJ, 918, 39 (2021)

⟪**23**⟫ *870 μm Dust Continuum of the Youngest Protostars in Ophiuchus*
F. J. Encalada, L. W. Looney, J. J. Tobin, S. I. Sadavoy, **D. M. Segura-Cox**, E. Cox, Z.-Y. Li, & G. Novak
ApJ, 913, 149 (2021)

⟪**22**⟫ *FAUST. II. Discovery of a Secondary Outflow in IRAS 15398-3359: Variability in Outflow Direction during the Earliest Stage of Star Formation?*
Y. Okoda, Y. Oya, F. Logan, D. Johnstone, S. Inutsuka, C. Ceccarelli, C. Codella, C. Chandler, N. Sakai, Y. Aikawa (+59 co-authors including **D. M. Segura-Cox**)
ApJ, 910, 11 (2021)

⟪**21**⟫ *Dissecting the Supercritical Filaments Embedded in the 0.5 pc Subsonic Region of Barnard 5*

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
ApJ, 909, 60 (2021)

⟪**20**⟫ *Kinematic Analysis of a Protostellar Multiple System: Measuring the Protostar Masses and Assessing Gravitational Instability in the Disks of L1448 IRS3B and L1448 IRS3A*
N. K. Reynolds, J. J. Tobin, P. D. Sheehan, S. I. Sadavoy, K. M. Kratter, Z.-Y. Li, C. J. Chandler, **D. M. Segura-Cox**, L. W. Looney, & M. M. Dunham
ApJL, 907, 10 (2020)

⟪**19**⟫ *FAUST I. The hot corino at the heart of the prototypical Class I protostar L1551 IRS5*
E. Bianchi, C. J. Chandler, C. Ceccarelli, C. Codella, N. Sakai, A. López-Sepulcre, L. T. Maud, G. Moellenbrock, B. Svoboda, Y. Watanabe (+56 co-authors including **D. M. Segura-Cox**)
MNRAS, 498, L87 (2020)

⟪**18**⟫ *Seeds of Life in Space (SOLIS). VI. Chemical evolution of sulfuretted species along the outflows driven by the low-mass protostellar binary NGC 1333-IRAS4A*
V. Taquet, C. Codella, M. De Simone, A. López-Sepulcre, J. E. Pineda, **D. M. Segura-Cox**, C. Ceccarelli, P. Caselli, A. Gusdorf, M. V. Persson (+36 co-authors)
A&A, 637, 63 (2020)

⟪**17**⟫ *Seeds of Life in Space (SOLIS). VII. Discovery of a cold dense methanol blob toward the L1521F VeLLO system*
C. Favre, C. Vastel, I. Jimenez-Serra, D. Quénard, P. Caselli, C. Ceccarelli, A. Chacón-Tanarro, F. Fontani, J. Holdship, Y. Oya (+33 co-authors including **D. M. Segura-Cox**)
A&A, 635, 189 (2020)

⟪**16**⟫ *The VLA/ALMA Nascent Disk and Multiplicity (VANDAM) Survey of Orion Protostars. II. A Statistical Characterization of Class 0 and Class I Protostellar Disks*
J. J. Tobin, P. D. Sheehan, S. T. Megeath, A. K. Díaz-Rodríguez, S. S. R. Offner, N. M. Murillo, M. L. R. van 't Hoff, E. F. van Dishoeck, M. Osorio, G. Anglada (+26 co-authors including **D. M. Segura-Cox**)
ApJ, 890, 130 (2020)

⟪**15**⟫ *The VLA/ALMA Nascent Disk and Multiplicity (VANDAM) Survey of Orion Protostars I. Identifying and Characterizing the Protostellar Content of the OMC2-FIR4 and OMC2-FIR3 Regions*
J. J. Tobin, T. S. Megeath, M. van 't Hoff, A. K. Diaz-Rodriguez, N. Reynolds, M. Osorio, G. Anglada, E. Furlan, N. Karnath, S. Offner (+23 co-authors including **D. M. Segura-Cox**)
ApJ, 866, 6 (2019)

⟪**14**⟫ *Dust Polarization Toward Embedded Protostars in Ophiuchus with ALMA. III. Survey Overview*
S. I. Sadavoy, I. W. Stephens, P. C. Myers, L. W. Looney, J. J. Tobin, W. Kwon, B. Commercon, **D. M. Segura-Cox**, T. Henning, & P. Hennebelle
ApJS, 245, 2 (2019)

⟪**13**⟫ *Dust Polarization toward Embedded Protostars in Ophiuchus with ALMA. II. IRAS 16293-2422*
S. I. Sadavoy, P. C. Myers, I. W. Stephens, J. Tobin, W. Kwon, **D. M. Segura-Cox**, T. Henning, B. Comercon, & L. Looney
ApJ, 869, 115 (2018)

⟪**12**⟫ *The VLA/ALMA Nascent Disk and Multiplicity (VANDAM) Survey of Perseus Protostars. VI. Characterizing the Formation Mechanism for Close Multiple Systems*
J. J. Tobin, L W. Looney, Z.-Y. Li, S. I. Sadavoy, M. M. Dunham, **D. M. Segura-Cox**, K. Kratter, C. J. Chandler, C. Melis, R. J. Harris, & L. Perez

ApJ, 867, 43 (2018)

⟨**11**⟩ *ALMA Observations of Polarized 872 μm Dust Emission from the Protostellar Systems VLA 1623 and L1527*
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