

# EUGENE CHIANG

## EDUCATION

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- 2000 California Institute of Technology  
Ph.D. Astronomy. Thesis: *Circumstellar and Circumplanetary Disks*
- 1995 Massachusetts Institute of Technology  
S.B. Physics, Minor in Theater Arts. Thesis: *Ionization Nebulae of Supersoft X-ray Sources*

## APPOINTMENTS

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- 2010–present Professor, Berkeley Astronomy / Earth and Planetary Science
- 2005–2010 Associate Professor, Berkeley Astronomy / Earth and Planetary Science
- 2001–2005 Assistant Professor, Berkeley Astronomy / Earth and Planetary Science
- 2000–2001 Long-Term Member & Hubble Fellow, Institute for Advanced Study
- 1995–2000 NSF Graduate Research Fellow, Caltech Theoretical Astrophysics
- Administrative positions at Berkeley*
- 2020–2024 PI, Berkeley Discover Program for Physics & Astronomy
- 2020–2023 Faculty Director, CalTeach (STEM Education Minor and K-12 Accreditation)
- 2015–2018 Chair, Department of Astronomy
- 2011–2015 Director, Center for Integrative Planetary Science (CIPS)
- 2008–present Head Graduate Advisor, Head Undergraduate Advisor, Vice Chair, Astronomy

## HONORS AND AWARDS

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- 2025 Miller Professor
- 2025 Caltech Kliegel Lectureship in Geological and Planetary Sciences
- 2024 Institute of Astronomy at Cambridge University Distinguished Lecture
- 2023 Simons Investigator
- 2019 Member, American Academy of Arts and Sciences
- 2019 Donald Sterling Noyce Prize for Undergraduate Teaching in Physical Sciences
- 2014 Berkeley Distinguished Teaching Award (highest award for teaching on campus)
- 2013 Miller Professor
- 2012 NOVA Lecturer for the Netherlands Research School in Astronomy
- 2010 American Association for Advancement of Science Newcomb Cleveland Prize
- 2004 Alfred P. Sloan Research Fellow
- 1999 Caltech Lewis A. Kingsley Foundation Fellow
- 1995 MIT Orloff Prize
- 1995 MIT Alan H. Barrett Prize

## ADVISING AND MENTORING

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### Postdoctoral Advisees (2001–present)

- **Eric Ford:** 2003 Miller Fellow, Professor (Penn State)
- **Josh Eisner:** 2005 Miller Fellow, 2011 Sloan Fellow, Professor (U. Arizona)
- **Margaret Pan:** 2009 TAC/CIPS Fellow, Harvard CfA Scientist
- **Meredith Hughes:** 2010 Miller Fellow, Associate Professor (Wesleyan)
- **Chris Ormel:** 2011 Hubble Fellow, Associate Professor (Tsinghua University)
- **Ji-Ming Shi:** 2011 CIPS/TAC Fellow, Machine Learning Engineer (Spotify)
- **Ruobing Dong:** 2013 Hubble Fellow, Boya Distinguished Professor (Peking University)
- **Rebekah Dawson:** 2013 Miller Fellow, 2017 AAS Annie Jump Cannon Award, 2021 DPS Urey Prize, 2021 AAS Warner Prize, Associate Professor (Penn State), NASA Program Officer
- **Jeffrey Fung:** 2015 NASA Sagan Fellow, Assistant Professor (Clemson)
- **Megan Ansdell:** 2017 CIPS Fellow, NASA Program Officer
- **Ian Czekala:** 2018 Sagan Fellow, Assistant Professor (Penn State, St. Andrews), Research Scientist (ATNF)
- **Sivan Ginzburg:** 2018 Heising-Simons 51 Peg Fellow, Senior Lecturer (Hebrew University)
- **Marta Bryan:** 2018 Heising-Simons 51 Peg Fellow, Sagan Fellow, 2023 AAS Annie Jump Cannon Award, Assistant Professor (U. Toronto, Penn State)
- **J.J. Zanazzi:** 2022 Heising-Simons 51 Peg Fellow, Assistant Professor (Penn State)
- **Rixin Li:** 2023 Heising-Simons 51 Peg Fellow
- **Mohammad Farhat:** 2024 Miller Fellow

### Graduate Advisees (co-authors on refereed papers; \*PhD thesis student)

- **Ruth Murray-Clay\*:** 2008 Berkeley Astronomy Ph.D., 2015 AAS Warner Prize, Associate Professor (UC Santa Cruz)
- **Linda Strubbe:** 2011 Berkeley Astronomy Ph.D., 2024 IAU Prize for Education, STEM Consultant
- **Edwin Kite:** 2011 Berkeley Earth and Planetary Science Ph.D., Associate Professor (U. Chicago)
- **Pascal Tremblin:** NSF ISIMA Research Student, 2012 CEA Saclay Astrophysics Ph.D., Director (CEA Maison de la Simulation)
- **Daniel Perez-Becker\*:** 2013 Berkeley Physics Ph.D., Senior Data Scientist (Microsoft)
- **Katherine Rosenfeld:** 2016 Harvard Astronomy Ph.D., Senior Research Scientist (Gates Foundation)
- **Eve Lee\*:** 2017 Berkeley Astronomy Ph.D., 2022 AAS Annie Jump Cannon Award, Assistant Professor (McGill), Associate Professor (UC San Diego)
- **Tushar Mittal:** 2020 Berkeley Earth and Planetary Science Ph.D., Assistant Professor (Penn State)
- **Nick Choksi\*:** 2025 Berkeley Astronomy Ph.D., Heising-Simons 51 Peg Fellow
- **Stephon Qian:** 2030 Berkeley Astronomy Ph.D.

**Undergraduate Advisees** (\*co-author on refereed or submitted papers; major(s) and graduation year)

- **Alex Backues\***: Physics & Computer Science (2029)
- **Mia Edmondson**: Physics & Math (2028)
- **Robert Feng**: Physics & Math (2028)
- **Roger Yu\***: Physics & Computer Science (2025)
- **Leon Mikulinsky\***: Applied Math (2025)
- **Joshua Jones\***: Computer Science & Math (2025)
- **Joshua Bromley\***: Astrophysics & Physics (2024), honors thesis, Department Citation
- **Lister Chen**: Astrophysics & Math (2022), honors thesis
- **R. Michael Jennings, Jr.\***: Physics & Astrophysics (2021), honors thesis, Klumpke-Roberts Prize
- **Ben Vinson\***: Physics & Math (2018)
- **Jonathan Lin\***: Engineering Physics, Astrophysics Minor (2019), NSF Graduate Research Fellow
- **Skylar Kerzer\***: Physics & Astrophysics (2015), Astronomy Student Commencement Speaker
- **Hyo Min Choi\***: Math (2008)
- **Jessica Lovering\***: Astrophysics (2006)
- **Chris Culter\***: Physics & Math (2005), honors thesis
- **Amy Jordan\***: Astrophysics (2003)
- **Ryan Moo Kwang Joung\***: Physics (2003), honors thesis

**Head Graduate Advisor** (2008–2015)

- General-purpose advisor for ~40 graduate students in Berkeley Astronomy. Enforced deadlines for preliminary and qualifying exams. Tracked progress of all students and mediated student-faculty relationships. Reduced time to Ph.D. from median 7 to < 6 yr.
- Author of 58-page manual for curricula and advising for decadal Department Program Review in 2008.

**Head Undergraduate Advisor** (2020–2024)

- General-purpose advisor for ~100 Berkeley Astronomy majors, reviewing degree requirements, expanding access to research, and promoting professional development.
- Principal Investigator of Berkeley Discover Innovation Grant (2020–24, \$581k) for Physics & Astronomy, building Peer Tutor + Peer Advisor programs, modernizing undergraduate labs.

## SELECTED PROFESSIONAL SERVICE

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1. James Webb Space Telescope Cycle 3 TAC Executive Committee (2024)
2. Berkeley Heising-Simons Faculty Fellows Selection Committee (2023, 2024, 2025)
3. Berkeley Sexual Violence / Harassment Peer Review Committee (2020–present)
4. Berkeley CalTeach Faculty Director (2020–2023; K-12 STEM accreditation)
5. Founding Chair of Berkeley Astronomy Climate Advisory Committee (2015–2018, 2020–2022)
6. Berkeley Math & Physical Sciences Dean Search Committee (2020–21)
7. Berkeley Senate Committee on Teaching (2018–2021)
8. UCSD Physics Department, Chair of External Review Committee (2019)
9. UCSC Astronomy Department, Member of External Review Committee (2016)
10. Berkeley Astronomy Department Chair (2015–2018; led 2017-2018 Academic Review, two faculty searches, three retention cases, ten+ merit and promotion cases, all successful; raised \$300k+)
11. Director, Berkeley Center for Integrative Planetary Science (CIPS) (2011–2015; led 2013 review which restored annual budget)
12. NASA Sagan and Hubble Fellowship Selection Committees
13. National Academy of Sciences Astro2010 Decadal Survey, Invited Science Frontier Panelist (2010)
14. Berkeley Senate Committee on Courses of Instruction and Academic Program (COCI; 2011–2015)
15. Berkeley Senate Committee on Undergraduate Scholarships, Honors, and Financial Aid (CUSHFA; 2011–2015)

## TWENTY SELECTED PUBLICATIONS

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*Full refereed bibliography at end of CV.*

1. "SPECTRAL ENERGY DISTRIBUTIONS OF T TAURI STARS WITH PASSIVE CIRCUMSTELLAR DISKS," EC & Goldreich, P. *ApJ*, 490 (1997)
2. "APSE ALIGNMENT OF NARROW ECCENTRIC PLANETARY RINGS," EC & Goldreich, P. *ApJ*, 540 (2000)
3. "RESONANCE OCCUPATION IN THE KUIPER BELT: CASE EXAMPLES OF THE 5:2 AND TROJAN RESONANCES," EC, Jordan, A.B., Millis, R., Buie, M., Wasserman, L., Elliot, J., Kern, S., Trilling, D., Meech, K., & Wagner, R. *AJ*, 126 (2003)
4. "THE CIRCUMBINARY RING OF KH 15D," EC & Murray-Clay, R.A. *ApJ*, 607 (2004)
5. "A SIGNATURE OF PLANETARY MIGRATION: THE ORIGIN OF ASYMMETRIC CAPTURE IN THE 2:1 RESONANCE," Murray-Clay, R.A. & EC *ApJ*, 619, (2005)
6. "DUST DYNAMICS, SURFACE BRIGHTNESS PROFILES, AND THERMAL SPECTRA OF DEBRIS DISKS: THE CASE OF AU MICROSCOPII," Strubbe, L.E. & EC *ApJ*, 648 (2006)
7. "ATMOSPHERIC ESCAPE FROM HOT JUPITERS," Murray-Clay, R.A., EC, & Murray, N. *ApJ*, 693 (2009)
8. "FORMING PLANETESIMALS IN SOLAR AND EXTRASOLAR NEBULAE," EC & Youdin, A. *Annual Reviews of Earth and Planetary Science*, 38 (2010)
9. "SURFACE LAYER ACCRETION IN CONVENTIONAL AND TRANSITIONAL DISKS DRIVEN BY FAR-ULTRAVIOLET IONIZATION," Perez-Becker, D. & EC *ApJ*, 735 (2011)
10. "CATASTROPHIC EVAPORATION OF ROCKY PLANETS," Perez-Becker, D. & EC *MNRAS*, 433 (2013)
11. "THE MINIMUM-MASS EXTRASOLAR NEBULA: IN-SITU FORMATION OF CLOSE-IN SUPER-EARTHS," EC & Laughlin, G. *MNRAS*, 431 (2013)
12. "HOW EMPTY ARE DISK GAPS OPENED BY GIANT PLANETS," Fung, J., Shi, J.-M., & EC *ApJ*, 782 (2014)
13. "BREEDING SUPER-EARTHS AND BIRTHING SUPER-PUFFS IN TRANSITIONAL DISKS," Lee, E.J. & EC *ApJ*, 817 (2016)
14. "A PRIMER ON UNIFYING DEBRIS DISK MORPHOLOGIES," Lee, E.J. & EC *ApJ*, 827 (2016)
15. "MAGNETOSPHERIC TRUNCATION, TIDAL INSPIRAL, AND THE CREATION OF SHORT-PERIOD AND ULTRA-SHORT-PERIOD PLANETS," Lee, Eve J. & EC *ApJ*, 842 (2017)
16. "STELLAR WINDS AND DUST AVALANCHES IN THE AU MIC DEBRIS DISK," EC & Fung, J. *ApJ*, 848 (2017)
17. "GIANT IMPACTS AND DEBRIS DISK MORPHOLOGY," Jones, J.W., EC, et al. *ApJ*, 948 (2023)
18. "CHAOTIC WINDS FROM A DYING WORLD: A ONE-DIMENSIONAL MAP FOR EVOLVING ATMOSPHERES," Bromley, J. & EC *MNRAS*, 521 (2023)
19. "THE MAXIMUM ACCRETION RATE OF A PROTOPLANET: HOW FAST CAN RUNAWAY BE?," Choksi, N., EC, Fung, J., & Zhaohuan, Z. *MNRAS*, 525 (2023)
20. "DAMPING OBLIQUITIES OF HOT JUPITER HOSTS BY RESONANCE LOCKING," Zanazzi, J.J., Dewberry, J. & EC *ApJL*, 967 (2024)

## CLASSROOM TEACHING

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### Berkeley Astrophysics and Physics (2001–present)

- **Introduction to Astrophysics I** (Undergraduate) — <http://w.astro.berkeley.edu/~echiang/Astro7A/7A.html>. Gateway to the double major in Astronomy and Physics. Instrumentation, radiation, stellar structure, compact objects. Field trip to Lick Observatory.
- **Introduction to Astrophysics II** (Undergraduate) — <http://w.astro.berkeley.edu/~echiang/Astro7B/7B.html>. Gateway to the double major in Astronomy and Physics. Interacting binaries, accretion disks, black holes, gravitational lensing, galaxies, cosmology. Tour of experimental CMB labs.
- **Planetary Astrophysics** (Undergraduate/Graduate) — <http://w.astro.berkeley.edu/~echiang/planetastro/planetastro.html>. Planetary physics. Radiometric dating, atmospheres, interiors, minor bodies, extrasolar planets, and planet formation. Student blackboard presentations and written papers.
- **Order-of-Magnitude Physics** (Graduate and Advanced Undergraduate) — <http://w.astro.berkeley.edu/~echiang/oom/oom.html>. The art of estimating any quantity under the Sun (e.g. cost of Obama’s inaugural ball; minimum water depth for cliff diving). Attracts graduate students from Physics, Astronomy, Earth and Planetary Science, Electrical Engineering, and Mechanical Engineering.
- **Astrophysical Fluid Dynamics** (Graduate and Advanced Undergraduate) — <http://w.astro.berkeley.edu/~echiang/fluid/fluid.html>. Core graduate course on hydrodynamics and magnetohydrodynamics. Order-of-magnitude and technical problems, emphasis on developing familiarity with the literature. Oral exams.
- **Radiative Processes in Astrophysics** (Graduate and Advanced Undergraduate) — <http://w.astro.berkeley.edu/~echiang/rad/rad.html>. Core graduate course on how we see what we see. Continuum processes, atomic and molecular line radiation, radiative transfer algorithms. Oral exams.
- **Galactic Dynamics** (Graduate). Lecture and round-table discussions on spiral structure, N-body algorithms, relaxation mechanisms, Schwarzschild’s method, dynamical friction, galaxy formation. Students posed and answered their own questions by constructing their own wiki pages. Beta-tested Binney & Tremaine’s 2nd Edition of *Galactic Dynamics*.
- **Planetary Dynamics** (Graduate) — <http://w.astro.berkeley.edu/~echiang/classmech/classmech.html>. Lecture and round-table discussions of papers on extrasolar planets, orbital perturbation theory, resonances, chaos, planet formation. Student blackboard derivations.
- **Physics of Super-Earths** (Graduate). Reading seminar on formation and evolution of Earth and Earth-like planets, attracting students from Astronomy and Earth and Planetary Science. Problem sets and weekly readings.
- **Accretion Disks** (Graduate). Reading seminar on mechanisms for angular momentum transport in astrophysical disks, with mini-lectures.
- **Classic Papers in Theoretical Astrophysics** (Graduate). Reading seminar on seminal papers in theoretical astrophysics, from Parker’s solar wind to Press-Schechter cosmological structure formation.
- **Classic Papers in Earth and Planetary Science** (Graduate). Reading seminar on seminal papers in geophysics, from atmospheric chaos to mantle convection.

## MIT Writing Center Tutor (1993)

- Coached students on how to improve their prose. Critiqued scientific papers, essays, resumes and cover letters.

## SELECTED PRESENTATIONS

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*Average 4 invited colloquia/seminars per year*

1. **“Giant Planet Formation”** Northwestern CIERA Colloquium (March 2026), UCSC IGPP Seminar (February 2026), Indiana University Colloquium (March 2026)
2. **“Some Disassembly Required”** Caltech James R. and Shirley A. Kliegel Lecture (April 2025); Institute of Astronomy at Cambridge University Distinguished Lecture (May 2024); Joint Princeton/IAS Colloquium (October 2024); University of Toronto ‘Planet Day’ Keynote Lecture (August 2023)
3. **“Planet Formation Post-Kepler”** Victoria (March 2021); UCSD/SDSU (November 2021); Joint Colloquium for MPIE, MPIA, ESO Garching (January 2020); CITA (May 2020); Cornell (September 2020); UCLA/JPL/Berkeley CIPS (October 2020)
4. **“Future Directions in Planet Formation”** Heising-Simons 51 Peg b Planetary Science Fellowship Symposium (San Francisco 2018)
5. **“Genesis of the Super-Earths”** Kavli ExoFrontiers Symposium (Cambridge UK 2017); Exoplanets I (Davos, Switzerland 2016)
6. **“Close-in Planets”** Caltech (2015); University of Toronto at Scarborough ‘Planet Day’ (2015); NOVA Lecturer for the Netherlands Research School for Astronomy (2012)
7. **“Planetesimal Formation and Disk Accretion”** Cornell (2009); Harvard Institute for Theory and Computation (2009); UCLA (2010); University of Toronto (2011)
8. **“Planet Formation: Observations and Theory”** Invited 6-hour lecture series for the ISIMA Summer School on “Star and Planet Formation,” at the Kavli Institute for Astronomy and Astrophysics at Beijing University (2011)
9. **“Resonant Rings: The Kuiper Belt and Beyond”** Invited colloquium at 15+ institutions, including MIT (2006); UC Berkeley (EPS Distinguished Speaker, 2006); American Museum of Natural History (2006); Caltech (2005); Institute for Advanced Study (2004); Ohio State University (2004)
10. **“Protoplanetary Disks: From T Tauri Stars to Debris Systems”** Invited 5-hour lecture series for the 24th Jerusalem Winter School on “Lives of Low-Mass Stars and Their Planets,” at Hebrew University in Israel (2006/2007)
11. **“Order-of-Magnitude Adventures in Planetary Science”** Invited 3-hour lecture series for the International Planetary School in Kobe, Japan (2005)

## SELECTED PUBLIC OUTREACH

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1. **Order-of-Magnitude Estimation and the Deepwater Horizon Oil Spill.** Estimated correctly the oil spill rate from the April 2010 British Petroleum oil rig explosion in the Gulf of Mexico. Provided source material for the Final Report of President Obama’s Commission on the BP Deepwater Horizon Oil Spill and Offshore Drilling. See links to news articles and a history of events at <http://w.astro.berkeley.edu/~echiang/bp/bp.html>
2. **“How Planets Form (Some Assembly—and Disassembly—Required)”** UC Museum of Paleontology “Short Course” on the Origin of Life (2025)
3. **“Ashes to Ashes, Dust to Dust: The Birth and Death of Planets”** Silicon Valley Astronomy Lecture Series (2023)
4. **“Close-in Planets: From Hot Jupiters to Super-Moons”** SETI Institute (2013); Mount Diablo Astronomical Society (2012)
5. **“Action and Reaction: How Gravity Shapes Planetary Systems”** Berkeley COMPASS Project for undergraduates (2010); San Francisco Amateur Astronomers (2009); Berkeley Astrophysics Roundtable (for donors; 2009)
6. **“Beyond Pluto”** Berkeley CIPS Public Lecture (2006); Mount Tamalpais Astronomical Society (2006); Silicon Valley Astronomy Lecture Series (audience of 600+) (2004); Sonoma State “What Physicists Do” Lecture Series (2004); Mount Diablo Astronomical Society (2003); Cal Day Astronomy Department Open House (2002)

## LANGUAGES

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- Mandarin Chinese (ILR Level 2+)
- French (ILR Level 1)

## REFERENCES

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Available upon request

## FULL REFEREED BIBLIOGRAPHY

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160 papers / Google Scholar h-index: 69 / i10-index: 137

1. "ON THE LI AND BE TESTS FOR BROWN DWARFS," Nelson, L. A., Rappaport, S., & Chiang, E. *Astrophys. J.*, 413, 364 (1993)
2. "TIME-DOMAIN HOLOGRAPHIC IMAGE STORAGE," Shen, X. A., Chiang, E., & Kachru, R. *Optics Letters*, 19, 1246 (1994)
3. "IONIZATION NEBULAE SURROUNDING SUPERSOFT X-RAY SOURCES," Rappaport, S., Chiang, E., Kallman, T., & Malina, R. *Astrophys. J.*, 431, 237 (1994)
4. "A  $\lambda$ 3.6 CM RADIO SURVEY OF LOW-MASS WEAK T TAURI STARS IN TAURUS-AURIGA," Chiang, E., Phillips, R., & Lonsdale, C. *Astron. J.*, 111, 355 (1996)
5. "TIME-DEPENDENT CALCULATIONS OF IONIZATION NEBULAE SURROUNDING SUPERSOFT X-RAY SOURCES," Chiang, E., & Rappaport, S. *Astrophys. J.*, 469, 255 (1996)
6. "SPECTRAL ENERGY DISTRIBUTIONS OF T TAURI STARS WITH PASSIVE CIRCUMSTELLAR DISKS," Chiang, E. I., & Goldreich, P. *Astrophys. J.*, 490, 368 (1997)
7. "KECK PENCIL-BEAM SURVEY FOR FAINT KUIPER BELT OBJECTS," Chiang, E.I., & Brown, M. E. *Astron. J.*, 118, 1411 (1999)
8. "SPECTRAL ENERGY DISTRIBUTIONS OF PASSIVE T TAURI DISKS: INCLINATION," Chiang, E.I., & Goldreich, P. *Astrophys. J.*, 519, 279 (1999)
9. "ANGULAR MOMENTUM TRANSPORT IN PARTICLE AND FLUID DISKS," Quataert, E., & Chiang, E. I. *Astrophys. J.*, 543, 432 (2000)
10. "APSE ALIGNMENT OF NARROW ECCENTRIC PLANETARY RINGS," Chiang, E. I., & Goldreich, P. *Astrophys. J.*, 540, 1084 (2000)
11. "SPECTRAL ENERGY DISTRIBUTIONS OF PASSIVE T TAURI AND HERBIG AE DISKS: GRAIN MINERALOGY, PARAMETER DEPENDENCES, AND COMPARISON WITH OBSERVATIONS," Chiang, E. I., Joungh, M. K., Creech-Eakman, M., Qi, C., Kessler, J., Blake, G., & van Dishoeck, E. F. *Astrophys. J.*, 577, 1077 (2001)
12. "APSIDAL ALIGNMENT IN UPSILON ANDROMEDAE," Chiang, E. I., Tabachnik, S., & Tremaine, S. *Astron. J.*, 122, 1607 (2001)
13. "INFRARED VIEWS OF THE TW HYA DISK," Weinberger, A. J., Becklin, E. E., Schneider, G., Chiang, E. I., Lowrance, P. J., Silverstone, M., Zuckerman, B., Hines, D., & Smith, B. A. *Astrophys. J.*, 566, 409 (2002)
14. "ISO LWS SPECTRA OF T TAURI AND HERBIG AeBe STARS," Creech-Eakman, M.J., Chiang, E.I., Joungh, R.M.K., Blake, G.A., & van Dishoeck, E.F. *Astron. & Astrophys.*, 385, 546 (2002)
15. "EXCITATION OF ORBITAL ECCENTRICITIES OF EXTRASOLAR PLANETS BY REPEATED RESONANCE CROSSINGS," Chiang, E. I., Fischer, D., & Thommes, E. *Astrophys. J. Letters*, 564, L105 (2002)
16. "ECCENTRICITY EXCITATION AND APSIDAL RESONANCE CAPTURE IN THE PLANETARY SYSTEM UPSILON ANDROMEDAE," Chiang, E. I., & Murray, N. *Astrophys. J.*, 576, 473 (2002)
17. "A COLLISIONAL FAMILY IN THE CLASSICAL KUIPER BELT," Chiang, E. I. *Astrophys. J. Letters*, 573, L65 (2002)
18. "ON THE PLUTINOS AND TWOTINOS OF THE KUIPER BELT," Chiang, E. I., & Jordan, A. B. *Astron. J.*, 124, 3430 (2002)
19. "EXCITATION OF ORBITAL ECCENTRICITIES BY REPEATED RESONANCE CROSSINGS: REQUIREMENTS," Chiang, E. I. *Astrophys. J.*, 584, 465 (2003)

20. "RESONANCE OCCUPATION IN THE KUIPER BELT: CASE EXAMPLES OF THE 5:2 AND TROJAN RESONANCES," Chiang, E. I., Jordan, A. B., Millis, R. L., Buie, M. W., Wasserman, L. H., Elliot, J. L., Kern, S. D., Trilling, D. E., Meech, K. M., & Wagner, R. M. *Astron. J.*, 126, 430 (2003)
21. "RESONANT AND SECULAR FAMILIES OF THE KUIPER BELT," Chiang, E. I., Lovering, J.L., Millis, R. L., Buie, M. W., Wasserman, L. H., & Meech, K. J. *Earth, Moon, & Planets*, First Decadal Review of the Edgeworth-Kuiper Belt special issue, 92, 49 (2003)
22. "PROCEDURES, RESOURCES AND SELECTED RESULTS OF THE DEEP ECLIPTIC SURVEY," Buie, M.W., Millis, R.L., Wasserman, L.H., Elliot, J.L., Kern, S.D., Clancy, K.B., Chiang, E.I., Jordan, A.B., Meech, K.J., Wagner, R.M., & Trilling, D.E. *Earth, Moon, & Planets*, 92, 113 (2003)
23. "THE DYNAMIC NEPTUNIAN RING ARCS," de Pater, I., Gibbard, S., Chiang, E. I., Hammel, H., Macintosh, B., Marchis, F., Martin, S., Roe, H. G., & Showalter, M. *Icarus*, 174, 263 (2005)
24. "THREE-DIMENSIONAL DYNAMICS OF NARROW PLANETARY RINGS," Chiang, E. I. & Culter, C. J. *Astrophys. J.*, 599, 675 (2004)
25. "PARTICLE PILE-UPS AND PLANETESIMAL FORMATION," Youdin, A. N. & Chiang, E. I. *Astrophys. J.*, 601, 1109 (2004)
26. "THE CIRCUMBINARY RING OF KH 15D," Chiang, E. I. & Murray-Clay, R. A. *Astrophys. J.*, 607, 913 (2004)
27. "A SIGNATURE OF PLANETARY MIGRATION: THE ORIGIN OF ASYMMETRIC CAPTURE IN THE 2:1 RESONANCE," Murray-Clay, R. A. & Chiang, E. I. *Astrophys. J.*, 619, 623 (2005)
28. "THE DEEP ECLIPTIC SURVEY: A SEARCH FOR KUIPER BELT OBJECTS AND CENTAURS. II. DYNAMICAL CLASSIFICATION, THE KUIPER-BELT PLANE, AND THE CORE POPULATION," Elliot, J.L., Kern, S.D., Clancy, K.B., Gulbis, A.A.S., Millis, R.L., Buie, M.W., Wasserman, L.H., Chiang, E. I., Jordan, A.B., Trilling, D.E., & Meech, K.J. *Astron. J.*, 129, 1117 (2005)
29. "NEPTUNE TROJANS AS A TESTBED FOR PLANET FORMATION," Chiang, E. I., & Lithwick, Y. *Astrophys. J.*, 628, 520 (2005)
30. "ON THE LOCATION OF THE SNOW-LINE IN PROTOPLANETARY DISKS," Lecar, M., Podolak, M., Sasselov, D., & Chiang, E. *Astrophys. J.*, 640, 1115 (2006)
31. "SPATIALLY RESOLVING THE INNER DISK OF TW HYDRAE," Eisner, J. A., Chiang, E. I., & Hillenbrand, L. A. *Astrophys. J. Letters*, 637, 133 (2006)
32. "DUST DYNAMICS, SURFACE BRIGHTNESS PROFILES, AND THERMAL SPECTRA OF DEBRIS DISKS: THE CASE OF AU MICROSCOPII," Strubbe, L. E., & Chiang, E. I. *Astrophys. J.*, 648, 652 (2006)
33. "BROWNIAN MOTION IN PLANETARY MIGRATION," Murray-Clay, R. A., & Chiang, E. I. *Astrophys. J.*, 651, 1194 (2006)
34. "A BRIEF HISTORY OF TRANS-NEPTUNIAN SPACE," Chiang, E. I., Lithwick, Y., Murray-Clay, R., Buie, M., Grundy, W., & Holman, M. Refereed review chapter in *Protostars and Planets V*, eds. B. Reipurth, D. Jewitt, & K. Keil, University of Arizona Press, 895 (2007)
35. "COLLISIONAL PARTICLE DISKS," Lithwick, Y., & Chiang, E. *Astrophys. J.*, 656, 524 (2007)
36. "SPECTRALLY DISPERSED K-BAND INTERFEROMETRIC OBSERVATIONS OF HERBIG AE/BE SOURCES: INNER DISK TEMPERATURE PROFILES," Eisner, J. A., Chiang, E. I., Lane, B. F., & Akeson, R. L. *Astrophys. J.*, 657, 347 (2007)
37. "BINARIES IN THE KUIPER BELT," Noll, K. S., Grundy, W. M., Chiang, E. I., Margot, J.-L., & Kern, S. D. Refereed review chapter in *The Kuiper Belt*, University of Arizona Press (2007)

38. "THE FORMATION OF ICE GIANTS IN A PACKED OLIGARCHY: INSTABILITY AND AFTER-MATH," Ford, E. B., & Chiang, E. I. *Astrophys. J.*, 661, 602 (2007)
39. "THE ORIGIN OF THE YOUNG STARS IN THE NUCLEUS OF M31," Chang, P., Murray-Clay, R., Chiang, E., & Quataert, E. *Astrophys. J.*, 668, 236 (2007)
40. "INSIDE-OUT EVACUATION OF TRANSITIONAL PROTOPLANETARY DISKS BY THE MAGNETO-ROTATIONAL INSTABILITY," Chiang, E. I., & Murray-Clay, R. A. *Nature Physics*, 3, 604 (2007)
41. "VERTICAL SHEARING INSTABILITIES IN RADIALY SHEARING DISKS: THE DUSTIEST LAYERS OF THE PROTOPLANETARY NEBULA," Chiang, E. I. *Astrophys. J.*, 675, 1549 (2008)
42. "THE WARPED PLANE OF THE CLASSICAL KUIPER BELT," Chiang, E. I., & Choi, H. *Astron. J.*, 136, 350 (2008)
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**Minor Planet Electronic Circulars / International Astronomical Union Circulars.**

1. Co-author of over 100 MPECs announcing discoveries of Kuiper Belt Objects
2. IAU Circular 8044, 3 (2003): Announcement of the first Neptune Trojan 2001 QR<sub>322</sub> at the leading L4 point with Neptune