

# Min-Kai Lin

ASIAA, 11F Astro.-Math. Building, NTU, No.1, Sec. 4, Roosevelt Rd., Taipei, Taiwan

☎ +886 2 2366 5399 • ✉ [mklin@asiaa.sinica.edu.tw](mailto:mklin@asiaa.sinica.edu.tw)  
🌐 [minkailin.wixsite.com/minkailin](http://minkailin.wixsite.com/minkailin)

## EMPLOYMENT

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### Academia Sinica Institute of Astronomy and Astrophysics

*Associate Research Fellow*

2021—

*Assistant Research Fellow*

2016—2021

### University of Arizona

*Steward Theory Fellow*

2014—2016

### Canadian Institute for Theoretical Astrophysics

*Postdoctoral Fellow*

2011—2014

## AFFILIATIONS

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### National Center for Theoretical Sciences

*Center Scientist and Coordinator, Theoretical and Computational Astrophysics*

2021—

## EDUCATION

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### University of Cambridge

*PhD, Theoretical Astrophysics*

2011

*BA and MSci, Natural Sciences: Astrophysics (First Class honors)*

2008

## RESEARCH

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**Topics:** theoretical astrophysics, astrophysical fluid dynamics, accretion disks, planet formation and evolution, numerical simulations

**Computing languages:** Fortran, C, IDL, Mathematica, Python

**Codes:** ATHENA, DEDALUS, FARGO, FARGO3D, PLUTO, ZEUS-MP

## AWARDS

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- The Young Scholars' Creativity Award, Fdn. for the Advancement of Outstanding Scholarship 2022
- Young Theoretical Scholar Award, National Center for Theoretical Sciences 2021
- Outstanding Young Physicist, The Physical Society of Taiwan 2020
- Academic Sinica Career Development Award 2020
- Academic Sinica Initial Employment Academic Research Award 2016
- Steward Observatory Prize Fellowship in Theoretical and Computational Astrophysics 2014
- CITA Postdoctoral Fellowship 2011
- Smith Rayleigh Knight Prize 2010
- Fellow of the Cambridge Overseas Society 2008
- St. John's College Benefactors' Scholarship 2008
- Isaac Newton Studentship 2008
- Overseas Research Scholarship 2008
- Institute of Astronomy Prize (top of class) 2008
- JS Wilson Prize for Natural Sciences 2006, 2007, 2008
- College Awarded Bursary 2007
- Skerne Scholarship 2005, 2006, 2007, 2008

o College Book Prize for Academic Distinction

2005, 2006, 2007, 2008

## GRANTS (AS PI)

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### MOST

o *Finding hidden planets in empty gaps and big data (1/3)* (USD 48K)  
110-2112-M-001-034-

o *Finding hidden planets in empty gaps and big data (2/3)* (USD 36.5K)  
111-2112-M-001-062-

### Regular Research Project

2021—2022

2022—2023

### Academia Sinica

o *How are planets made in windy, turbulent disks?* (USD 620K)  
AS-CDA-110-M06

### Career Development Award

2021—2025

### MOST

o *From dust and gas to planet formation and evolution* (USD 154K)  
107-2112-M-001-043-MY3

### Research Project for Newly-recruited Personnel

2018—2022

### NASA

o *Hydrodynamic processes in planet-forming accretion disks* (USD 300K)  
NNX17AK59G

### Astrophysics Theory Program

2017—2020

## PROFESSIONAL MEMBERSHIP

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o International Astronomical Union, [URL here](#)

2018—

o The Astronomical Society of the Republic of China (Taiwan)

2018—

o The Physical Society of Taiwan

2020—

## ACADEMIC SERVICES

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Referee for: Nature Astronomy, The Astrophysical Journal, Astronomy & Astrophysics, Monthly Notices of the Royal Astronomical Society, Icarus, Astrophysics and Space Science, Geophysical & Astrophysical Fluid Dynamics, Research in Astronomy and Astrophysics

MOST proposal reviewer

2018—

Panelist, NASA proposal panel

2015, 2016

External reviewer, NASA proposal panel

2022

Chair, ASIAA Computing Committee

2022—

ASIAA Colloquium Committee

2016—2021 (2017—2018 as chair)

ASIAA Summer Student Program Committee

2020— (2021— as chair)

Chair, ASIAA Theory Group HPC Committee

2018/19—

SOC, Vertical Shear Instability Workshop (online)

Nov. 2022

Chair, NCTS-ASIAA Workshop: Star, Planets, and Formosa

Aug. 2022

LOC/SOC, NCTS Annual Theory Meeting

Dec. 2021

LOC, TIARA Summer School on Origins of the Solar System

Jul. 2018

LOC, Taiwanese Theoretical Astrophysics Workshop

Sep. 2018

LOC, EANAM 8

Oct. 2018

LOC, TIARA/CHARMS Mini-Workshop on Disks in the Protoplanetary Systems

Jul. 2017

## SUPERVISION AND TEACHING

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### ASIAA

Postdocs

- Jeremy Smallwood (Fellowship), *Planet formation in distorted disks* 2022—
- Michael Hammer, *Windy disk-planet interactions* 2021—
- Marius Lehmann, *Dust dynamics in 3D protoplanetary disks* 2020—
- Alex Teachey (Fellowship), *Exomoons* 2020—
- Sayantan Auddy, *Machine learning and disk-planet interaction* 2018—2020

#### Graduate students

- Shiang-Chih Wang, *Dust-gas instabilities* 2022—

#### Research assistants

- Chun-Yen Hsu, *Dust-gas interaction in magnetized disks* 2020—2022

#### Undergraduate summer student program

- Lecture: *Accretion disks* Aug. 2017
- Jhih-Wei Chen, *Dusty disk-planet simulations* 2017
- Kan Chen, *Streaming instability in turbulent disks* 2017
- Simin Tong, *Axisymmetric dusty disk-planet simulations* 2019
- Jiaqing Bi, *Three-dimensional dusty disk-planet simulations* 2019
- Yinhao Wu, *Streaming instabilities in Hall-affected disks* 2022

### National Taiwan University

#### Computational Astrophysics

- Protoplanetary disks: theory and simulations 2019

### University of Arizona

#### Graduate research

- Michael Hammer, *Numerical simulations of disk-planet interactions* (supervisor: Prof. Kaitlin Kratter) 2015—2021

#### ASTR 296: Topics in Astronomical Research

- ‘Signposts of planet formation’ Apr. 2015

### CITA, University of Toronto

#### Undergraduate summer student program

- Robert Les, *Gap formation and stability in non-isothermal protoplanetary discs* 2014
- Ryan Cloutier, *Orbital migration of giant planets induced by gravitationally unstable gaps* 2012

### University of Cambridge

#### Undergraduate supervision

- Part II NST Astrophysical Fluid Dynamics 2011
- Part IA NST Mathematics 2008—2011

## PUBLICATIONS

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†directly supervised student or assistant

#### Submitted:

1. *Gap-opening planets make dust rings wider*  
Bi, J., **Lin, M.-K.**, Dong, R., *ApJ* 2022
2. *Hydro-, magnetohydro-, and dust-gas dynamics of protoplanetary disks*  
Lesur, G., Ercolano, B., Flock, M., **Lin, M.-K.**, Yang, C.-C., Barranco, J. A., Benitez-Llambay, P., Goodman, J., Johansen, A., Klahr, H., Laibe, G., Lyra, W., Marcus, P., Nelson, R.P., Squire, J., Simon, J.B., Turner, N., Umurhan, O.M., Youdin, A.N., *Protostars and Planets VII* 2022

#### Refereed:

39. *Nonlinear evolution of streaming instabilities in accreting protoplanetary disks*  
†Hsu, C.-Y., **Lin, M.-K.**, *ApJ*, 937, 55 2022
38. *Using Bayesian Deep Learning to infer planet mass from gaps in protoplanetary disks*  
Auddy, S., Dey, R., **Lin, M.-K.**, Carrera, D., Simon, J.B., *ApJ*, 936, 93 2022
37. *Revealing the drag instability in the one-fluid non-ideal MHD simulations of a 1D isothermal C-shock*  
Gu, P.-G., Chen, C.-C., Shen, E., Yen, C.-C., **Lin, M.-K.**, *ApJ*, 935, 95 2022

36. *Impact of local pressure enhancements on dust concentration in turbulent protoplanetary discs*  
Lehmann, M., **Lin, M.-K.**, A&A, 658, A156 2022
35. *Streaming instabilities in accreting and magnetized laminar protoplanetary disks*  
**Lin, M.-K.**, †Hsu, C.-Y., ApJ, 926, 14 2022
34. *DPNNet-2.0 Part I: Finding hidden planets from simulated images of protoplanetary disk gaps*  
Auddy, S., Dey, R., **Lin, M.-K.**, Hall, C., ApJ, 920, 3 2021
33. *On the vertical shear instability in magnetized protoplanetary disks*  
Cui, C., **Lin, M.-K.**, MNRAS, 505, 2983 2021
32. *Which planets trigger longer-lived vortices: low-mass or high-mass?*  
Hammer, M., **Lin, M.-K.**, Kratter, K.M., Pinilla, P., MNRAS, 504 3963 2021
31. *Puffed up edges of planet-opened gaps in protoplanetary disks I. Hydrodynamic simulations*  
†Bi, J., **Lin, M.-K.**, Dong, R., ApJ, 912, 107 2021
30. *Stratified and vertically shearing streaming instabilities in protoplanetary disks*  
**Lin, M.-K.**, ApJ, 907, 64 2021
29. *A Machine Learning model to infer planet masses from gaps observed in protoplanetary disks*  
Auddy, S., **Lin, M.-K.**, ApJ, 900, 62 2020
28. *Migrating low-mass planets in inviscid dusty protoplanetary discs*  
Hsieh, H.-F., **Lin, M.-K.**, MNRAS, 497, 2425 2020
27. *How efficient is the streaming instability in viscous protoplanetary disks?*  
†Chen, K., **Lin, M.-K.**, ApJ, 891, 132 2020
26. *Vortex instabilities triggered by low-mass planets in pebble-rich, inviscid protoplanetary discs*  
Pierens, A., **Lin, M.-K.**, Raymond, S., MNRAS, 488, 645 2019
25. *Dust settling against hydrodynamic turbulence in protoplanetary discs*  
**Lin, M.-K.**, MNRAS, 485, 5221 2019
24. *Observational diagnostics of elongated planet-induced vortices with realistic planet formation timescales*  
Hammer, M., Pinilla, P., Kratter, K., **Lin, M.-K.**, MNRAS, 482, 3609 2019
23. *On the evolution of vortices in massive protoplanetary discs*  
Pierens, A., **Lin, M.-K.**, MNRAS, 479, 4878 2018
22. *Dusty disc-planet interaction with dust-free simulations*  
†Chen, J.-W., **Lin, M.-K.**, MNRAS, 478, 2737 2018
21. *Vortex survival in 3D self-gravitating accretion discs*  
**Lin, M.-K.**, Pierens, A., MNRAS, 478, 575 2018
20. *A thermodynamic view of dusty protoplanetary disks*  
**Lin, M.-K.**, Youdin, A.N., ApJ, 849, 129 2017
19. *Slowly-growing gap-opening planets trigger weaker vortices*  
Hammer, M., Kratter, K.M., **Lin, M.-K.**, MNRAS, 466, 3 2017
18. *On the gravitational stability of gravito-turbulent accretion disks*  
**Lin, M.-K.**, Kratter, K.M., ApJ, 824, 91 2016
17. *Cooling requirements for the vertical shear instability in protoplanetary disks*  
**Lin, M.-K.**, Youdin, A.N., ApJ, 811, 17 2015
16. *Gap formation and stability in non-isothermal protoplanetary discs*  
†Les, R., **Lin, M.-K.**, MNRAS, 450, 1503 2015

15. *One-armed spirals in locally isothermal, radially structured self-gravitating discs*  
Lin, M.-K., MNRAS, 448, 3806 2015
14. *Linear stability of magnetized massive protoplanetary disks*  
Lin, M.-K., ApJ, 790, 13 2014
13. *Testing large-scale vortex formation against viscous layers in three-dimensional discs*  
Lin, M.-K., MNRAS, 437, 575 2014
12. *Steady state of dust distributions in disk vortices: observational predictions and applications to transitional disks*  
Lyra, W., Lin, M.-K., ApJ, 775, 17 2013
11. *Orbital migration of giant planets induced by gravitationally unstable gaps: the effect of planet mass*  
†Cloutier, R., Lin, M.-K., MNRAS, 434, 621 2013
10. *Non-barotropic linear Rossby wave instability in three-dimensional disks*  
Lin, M.-K., ApJ, 765, 84 2013
9. *Effects of upper disc boundary conditions on the linear Rossby wave instability*  
Lin, M.-K., MNRAS, 428, 19 2013
8. *Vortex and spiral instabilities at gap edges in three-dimensional self-gravitating disc-satellite simulations*  
Lin, M.-K., MNRAS, 426, 3211 2012
7. *Rossby wave instability in locally isothermal and polytropic disks: three-dimensional linear calculations*  
Lin, M.-K., ApJ, 754, 21 2012
6. *Outward migration of a giant planet with a gravitationally unstable gap edge*  
Lin, M.-K., Papaloizou, J.C.B., MNRAS, 421, 780 2012
5. *Spin-down of protostars through gravitational torques*  
Lin, M.-K., Krumholz, M. R., Kratter, K. M., MNRAS, 416, 580 2011
4. *Edge modes in self-gravitating disc-planet interactions*  
Lin, M.-K., Papaloizou, J.C.B, MNRAS, 415, 1445 2011
3. *The effect of self-gravity on vortex instabilities in disc-planet interactions*  
Lin, M.-K., Papaloizou, J.C.B, MNRAS, 415, 1426 2011
2. *Type III migration in a low viscosity disc*  
Lin M.-K., Papaloizou, J.C.B, MNRAS, 405, 1473 2010
1. *Three-layer magnetoconvection*  
Lin, M.-K., Silvers, L. J., Proctor, M.R.E., Physics Letters A, 373, 69 2008

**Conference proceedings and abstracts:**

5. *Insights into the Streaming Instability in Protoplanetary Disks*  
Youdin, A.N., Lin, M.-K., Li, R., AAS -DPS meeting 49, #500.06 2017
4. *Vertical shear instability in the solar nebula*  
Lin, M.-K., Youdin, A.N., IAUS 314 proceedings 2016
3. *Gravitational instability of planetary gaps and its effect on orbital migration*  
Lin, M.-K., \*Cloutier, R., IAUS 299 proceedings 2014
2. *Instabilities at planetary gap edges in 3D self-gravitating disks*  
Lin, M.-K., Instabilities and Structures in Proto-Planetary Disks, Marseille, France, EPJ Web of Conferences, 46, id.07001 2013

1. *Evolution of bar-driven disks under the influence of the interaction between two inner Lindblad resonances*  
Yuan, C., Yen, D. C. C., **Lin, M.-K.**, AAS meeting 207, #188.04 2005
- Outreach:**
2. *Exoplanet science: a new era of astronomy (in Chinese)*  
**Lin, M.-K.**, Physics Bimonthly, [URL here](#) 2020
  1. *Planet Formation: From Small Particles to Big Planets*  
**Lin, M.-K.**, Taiwan Research Highlight, [URL here](#) 2019

## PRESENTATIONS

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- *Streaming instabilities in modern protoplanetary disks*  
Planet and binary formation in grav. unstable pp. discs, Leicester, UK Sept. 2022  
Planets in the Desert - A Streaming Instability Code Comparison, Las Cruces, NM, USA Jun. 2022
- *Vortices in protoplanetary disks*  
Invited talk, Sci. workshop for synergy of Subaru/SCEXAO and ALMA (online), Japan Jul. 2022
- *Hopes and challenges in modern planet formation*  
Seminar, Queen Mary University of London, UK Sept. 2022  
Seminar, University College London, UK Sept. 2022  
Seminar, University of Leicester, UK Sept. 2022  
Colloquium, NCU, Taiwan Apr. 2022  
Colloquium, ASIES, Taiwan Apr. 2022  
Invited talk, NCTS Forum, TPS Annual Meeting, NTNU, Taiwan Jan. 2022
- *Vertically shearing streaming instabilities in protoplanetary disks*  
TPS Annual Meeting, NTNU, Taiwan Jan. 2022
- *Hopes and challenges in modern planet formation*  
NCTS Annual Theory Meeting, NTU, Taiwan Dec. 2021
- *Vortex survival in 3D self-gravitating protoplanetary disks*  
Distorted Astrophysical Discs (online), University of Cambridge, UK May 2021
- *Making planets from small grains and big data*  
Colloquium, Beijing Normal University, China Oct. 2021  
Colloquium, NTHU, Taiwan Mar. 2021
- *Vertically shearing streaming instabilities in protoplanetary disks*  
Laboratory Fluid Dynamics for Disks and Planets (online), Ringberg, Germany Sep. 2021  
Invited talk, Cores to Codes, ASIAA, Taiwan Mar. 2021
- *Stratified and vertically-shearing streaming instabilities in protoplanetary disks*  
Planetesimal formation meeting (remote), Lund University, Sweden Nov. 2020
- *Making planets from small grains and big data*  
StarPlan seminar (remote), University of Copenhagen, Denmark May 2020  
Seminar (remote), University of Warwick, UK Oct. 2020  
Exoplanet seminar (remote), University of Cambridge, UK Nov. 2020  
DAMTP seminar (remote), University of Cambridge, UK Nov. 2020  
GIAP seminar, National Chengchi University, Taiwan Dec. 2020
- *Planetesimal formation in turbulent protoplanetary disks*  
Annual Meeting of the Physical Society of Taiwan, NPTU Feb. 2020
- *Dust dynamics in (3D) protoplanetary disks*  
2nd Workshop for Protoplanetary Disks and Exoplanets, ASIAA Dec. 2019
- *Hydrodynamic activity in planet-forming disks*  
Invited review, Planet Formation Workshop, NAOJ, Japan Nov. 2019
- *The thickness of dusty protoplanetary disks depends on metallicity*  
Extreme Solar Systems IV, Reykjaík, Iceland Aug. 2019

- *A rocky road from dust to planets*  
Seminar, Herzberg Astronomy and Astrophysics Research Centre, Victoria, Canada May 2019  
Invited colloquium, Tsinghua University, Beijing, China May 2019
- *Dust settling in turbulent protoplanetary disks*  
Annual Meeting of the Physical Society of Taiwan, NCTU, Taiwan Jan. 2019  
New Horizons in Planetary Systems, Victoria, Canada May 2019  
CCA Planet Formation Workshop, Flatiron Institute, New York, USA May 2019  
Great Barriers in Planet Formation, Palm Cove, Australia Jul. 2019  
Theory Group Workshop, ASIAA, Taiwan Jul. 2019
- *Astrophysical fluid dynamics: accretion disks*  
Mini-school on Computational Astrophysics, ASIAA, Taiwan Oct. 2018
- *Dust settling in turbulent protoplanetary disks*  
Taiwanese Theoretical Astrophysics Workshop, ASIAA, Taiwan Sep. 2018  
8th East Asian Numerical Astrophysics Meeting, NCKU, Taiwan Oct. 2018
- *Linear hydrodynamics of protoplanetary discs: a crash course*  
TIARA Summer School on Origins of the Solar System, ASIAA, Taiwan Jul. 2018
- *Dust-free modelling of dusty protoplanetary discs*  
Exoplanets II, Cambridge, UK Jul. 2018  
Planets, Stars and Discs: A Golden Age for Particle and Gas Dynamics, Oxford, UK Jul. 2018
- *Footprints of planet formation*  
Colloquium, National Taiwan Normal University, Taiwan May 2018
- *Dust dynamics in protoplanetary disks*  
Seminar, Imperial College London, UK Mar. 2018  
Seminar, University of Bristol, UK Mar. 2018  
Seminar, Queen Mary University of London, UK Mar. 2018  
Seminar, University of Exeter, UK Mar. 2018  
Seminar, University of Leicester, UK Mar. 2018  
Colloquium, ASIAA, Taiwan Nov. 2018  
Colloquium, NTHU, Taiwan Nov. 2018
- *Lifting dust particles by the vertical shear instability*  
ALMA North American-Taiwan Joint Workshop Feb. 2018  
ASROC Annual Meeting, Kinmen May 2018
- *Footprints of planet formation*  
Invited colloquium, National Central University, Taiwan Oct. 2017  
Invited colloquium, Chung Yuan Christian University, Taiwan Oct. 2017
- *Dust-free modeling of dusty protoplanetary disks*  
Exoplanets and Planet formation, Shanghai, China Dec. 2017  
TIARA/CHARMS Mini-Workshop on Disks in the Protoplanetary Systems, Taiwan Jul. 2017  
Cross-Strait Symposium of Astrophysics, ASIAA, Taiwan Jul. 2017  
Asia-Pacific Regional IAU Meeting, Taipei, Taiwan Jul. 2017
- *Hydrodynamic models of dusty protoplanetary disks*  
ALMA Band 1 Workshop, ASIAA, Taiwan Jan. 2017
- *Vortex dynamics in protoplanetary disks*  
EANAM 7, Beijing, China Oct. 2016
- *Non-ideal gravitational instabilities in protoplanetary disks*  
Exoplanets I, Davos, Switzerland Jul. 2016
- *Hydrodynamic processes in protoplanetary disks*  
API Colloquium, University of Amsterdam, The Netherlands Jun. 2016
- *Hydrodynamic activity in protoplanetary disks*  
Colloquium and CompAS seminar, ASIAA, Taipei, Taiwan Apr. 2016  
Lunchtime talk, University of Leicester, UK Mar. 2016

- Journal club talk, Queen Mary University of London, UK Mar. 2016
- *Vortex (and spiral) instabilities in structured protoplanetary disks*  
Protoplanetary DISCUSSIONS, University of Edinburgh, UK Mar. 2016
- *How to fragment protostellar disks with your bare hands*  
FLASH talk, NOAO, Tucson, Arizona, USA Feb. 2016
- *Vertical shear instability in protoplanetary disks*  
Protoplanetary Disk Dynamics and Planet Formation, Yokohama, Japan Sep. 2015  
In the Spirit of Lyot, Montreal, Canada; CITA fluids talk Jun. 2015  
IAUS 314: Young Stars & Planets Near the Sun, Atlanta, USA May 2015
- *On the formation of one-armed spirals in locally isothermal disks*  
Disc Dynamics & Planet Formation, Larnaka, Cyprus Jun. 2015  
Star and Planet Formation in the Southwest, Tucson, USA Mar. 2015
- *Strange aspects of locally iso. astrophys. disks and the stability of magnetized massive disks*  
UC Berkeley CIPS seminar Feb. 2015
- *Gap formation and stability in non-isothermal protoplanetary disks*  
Characterizing Planetary Systems Across the HR Diagram, Cambridge, UK Jul. 2014
- *From the complex plane to planet formation*  
CITA (ISIMA talk), University of Arizona Jul. 2014
- *Dust trapping in protoplanetary disk vortices*  
University of Toronto Mar. 2014
- *Large-scale hydrodynamic instabilities and structures in protoplanetary disks*  
Centre for Star and Planet Formation/Niels Bohr Institute, Copenhagen, Denmark Jan. 2014
- *Gravitational instability of planetary gaps and its effect on orbital migration*  
IAUS 299: Exploring the Formation and Evolution of Planetary Systems, Victoria, Canada Jun. 2013  
University of Toronto May 2013
- *Large-scale hydrodynamic instabilities in protoplanetary disks*  
MIT, Harvard-Smithsonian CfA Apr. 2013
- *Large-scale vortex formation in protoplanetary disks*  
Cornell University (invited colloquium), Princeton University Feb. 2013  
University of Toronto Nov. 2012
- *Vortices and spirals at gap edges in 3D self-gravitating disk-planet simulations*  
American Geophysical Union Fall Meeting, San Francisco, USA Dec. 2012  
Instabilities and Structures in Protoplanetary Disks, Marseille, France Sep. 2012
- *Planet migration with gravitationally unstable gaps*  
University of Cambridge Oct. 2011
- *Vortex instabilities in self-gravitating disc-planet interactions*  
Baroclinic Instability and Protoplanetary Accretion Disks, Ringberg, Germany Jun. 2011
- *The stability of self-gravitating gaps*  
ASIAA; University of Cambridge Nov. 2010
- *Spin down of protostars through gravitational disk torques*  
East Asian Numerical Astrophysics Meeting, ASIAA, Taiwan Nov. 2010  
International Summer Institute for Modeling in Astrophysics, UC Santa Cruz, USA Aug. 2010
- *Type III migration in a low viscosity disc.*  
American Museum of Natural History, New York City, USA Jan. 2010
- *Type III migration in a low viscosity disc.*  
Winter Workshop on Planetary Astrophysics, KIAA, Peking University, China Dec. 2009  
University of Cambridge Oct. 2009

- *Vortices in planetary migration*  
Dynamics of Discs and Planets, Cambridge, UK Aug. 2009
- *Three-layer magnetoconvection*  
UKMHD, Coventry University, UK Jun. 2009

## OTHER WORK EXPERIENCES

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- UC Santa Cruz**  
*ISIMA summer student* 2010  
Project: Numerical simulations of star-disk interaction, with M. Krumholz and K. Kratter
- DAMTP, University of Cambridge**  
*Summer student* 2007  
Project: Three-layer magneto-convection, with L. Silvers and M. Proctor
- ASIAA, Taipei, Taiwan**  
*Summer/visiting student* 2005, 2006  
Project: Bar-driven density waves in galactic disks, with C. Yuan and D.C.C. Yen

## REFERENCES

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- Professor You-Hua Chu** **ASIAA**  
*yhchu@asiaa.sinica.edu.tw*  
Tel: +886 2 2366 5300  
Institute of Astronomy and Astrophysics, Academia Sinica, 11F of Astronomy-Mathematics Building,  
No.1, Sec. 4, Roosevelt Rd, Taipei 10617, Taiwan
- Professor Andrew Youdin** **University of Arizona**  
*youdin@email.arizona.edu*  
Tel: +1 520 626 4731  
Department of Astronomy/Steward Observatory, 933 North Cherry Avenue Tucson, AZ 85721-0065, USA
- Professor Norman Murray** **Canadian Institute for Theoretical Astrophysics**  
*murray@cita.utoronto.ca*  
Tel: +1 416 978 1778  
University of Toronto, 60 St. George Street, 14th floor Toronto, ON. M5S 3H8, Canada
- Professor Chris Thompson** **Canadian Institute for Theoretical Astrophysics**  
*thompson@cita.utoronto.ca*  
Tel: +1 416 978 8784  
University of Toronto, 60 St. George Street, 14th floor Toronto, ON. M5S 3H8, Canada
- Professor John Papaloizou** **University of Cambridge**  
*jcbp2@damtp.cam.ac.uk*  
Tel: +44 1223 760 390  
DAMTP, Centre for Mathematical Sciences, Wilberforce Road, Cambridge, CB3 0WA, United Kingdom
- Professor Gordon Ogilvie** **University of Cambridge**  
*gio10@cam.ac.uk*  
Tel: +44 1223 760 395  
DAMTP, Centre for Mathematical Sciences, Wilberforce Road, Cambridge, CB3 0WA, United Kingdom