

Virginie Faramaz



3 April 1984



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About me

I defended my thesis in 2014 in France, and I am now a FONDECYT postdoctoral Fellow in Chile. My work consists of studying planetary system formation and evolution in circumstellar discs, the interactions between the planets and these discs, and the stability of planetary systems, using numerical tools.

Skills

Pedagogy and Popularization

Dynamics of planetary systems

Programming:

Fortran C Matlab Latex Linux IDL

Languages:

- French (motherlanguage)
- English (fluent)
- German (basic)
- Spanish (basic)

Interests:

Cooking literature outdoors activities
movies/series nights with friends

Research interests

Dynamical history and evolution of debris discs and planetary systems, their interactions, related debris discs large scale asymmetries, planetary migration, N-body simulations, celestial mechanics, dynamical production of comets, astrobiology.

Employment

Since 2014 FONDECYT Postdoctoral Fellow IA-PUC, Santiago, Chile
Exoplanetary Systems Dynamics - Sponsor: Jorge Cuadra

Education

2011-2014	Ph.D. - Astrophysics <i>Exoplanetary Systems Dynamics</i> Supervisors: Hervé Beust & Jean-Charles Augereau	IPAG-UJF, Grenoble, France
2010-2011	Master 2 - Physical Systems Modelling <i>Dynamical modelling of the Gyr-old debris disc of ζ^2 Reticuli</i> Supervisor: Hervé Beust	IPAG-UJF, Grenoble, France
2008-2010	Master 2 - Astrophysics <i>Planetary migration in binary systems</i> - Supervisor: Hervé Beust	IPAG-UJF, Grenoble, France
2006-2008	Master 1 - Physics <i>Josephson effect modelling</i> - Supervisor: Pascal Fèbvre	Université de Savoie, France
2002-2006	B.Sc. - Physics & Chemistry	Université de Savoie, France

Refereed publications

Subm. to MNRAS	<i>Inner mean-motion resonances with eccentric planets: a possible origin for exozodiacal dust clouds</i> V. Faramaz, S. Ertel, M. Booth, J. Cuadra., C. Simmonds
MNRAS 2016 Vol. 462	94 Ceti: a triple star with a planet and a dust disc J. Wiegert, V. Faramaz, F. Cruz Saenz de Miera
MNRAS 2016, Vol. 460, L10-L14	Resolving the planetesimal belt of HR 8799 with ALMA M. Booth, A. Jordan, S. Casassus, A. Hales, B. Dent, V. Faramaz, L. Mâtra D. Barkats, R. Brahms, J. Cuadra
A&A 2015, Vol. 573, A87	<i>Insights on the dynamical history of the Fomalhaut system - Investigating the Fom c hypothesis</i> V. Faramaz, H. Beust, J.-C. Augereau, P. Kalas, J. R. Graham
A&A 2014, Vol. 563, A72	<i>Can eccentric debris disks be long-lived? - A first numerical investigation and application to ζ^2 Reticuli</i> V. Faramaz, H. Beust, P. Thébault, J.-C. Augereau, A. Bonsor, C. del Burgo, S. Ertel, J. P. Marshall, J. Milli, B. Montesinos, A. Mora, G. Bryden, W. Danchi, C. Eiroa, G. J. White, S. Wolf
A&A 2014, Vol. 561, A43	An independent determination of Fomalhaut b's orbit and the dynamical effects on the outer dust belt H. Beust, J.-C. Augereau, A. Bonsor, J. R. Graham, P. Kalas, J. Lebreton, A.-M. Lagrange, S. Ertel, V. Faramaz, P. Thébault
A&A 2013, Vol. 555, A146	An interferometric study of the Fomalhaut inner debris disk - III. Detailed models of the exozodiacal disk and its origin J. Lebreton, R. van Lieshout, J.-C. Augereau, O. Absil, B. Mennesson, M. Kama, C. Dominik, A. Bonsor, J. Vandeportal, H. Beust, D. Defrère, S. Ertel, V. Faramaz, P. Hinz, Q. Kral, A.-M. Lagrange, W. Liu, P. Thébault
A&A 2013, Vol. 555, A11	DUST around NEArby Stars. The survey observational results C. Eiroa, J. P. Marshall, A. Mora, B. Montesinos, O. Absil, J.-C. Augereau, A. Bayo, G. Bryden, W. Danchi, C. del Burgo, S. Ertel, M. Fridlund, A. M. Heras, A. V. Krivov, R. Launhardt, R. Liseau, T. Löhne, J. Maldonado, G. L. Pilbratt, A. Roberge, J. Rodmann, J. Sanz-Forcada, E. Solano, K. Stapelfeldt, P. Thébault, S. Wolf, D. Ardila, M. Arévalo, C. Beichmann, V. Faramaz, B. M. González-García, R. Gutiérrez, J. Lebreton, R. Martínez-Arnáiz, G. Meeus, D. Montes, G. Olofsson, K. Y. L. Su, G. J. White, D. Barrado, M. Fukagawa, E. Grün, I. Kamp, R. Lorente, A. Morbidelli, S. Müller, H. Mutschke, T. Nakagawa, I. Ribas, H. Walker

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Observational experience

Member of

DUNES (Herschel Key Project)
MAD (Millennium ALMA Discs) Nucleus

ALMA Proposals PI

Cycle 3 2015.1.00684.S
Signature of a Planet in the Gyr-old
Eccentric Debris Ring of HD 202628
Ranked C - Not observed

Cycle 4 2016.1.00515.S
Signature of a Planet in the Gyr-old
Eccentric Debris Ring of HD 202628
Ranked B

Cycle 4 2016.1.00907.S
Planet-disk interactions in the HR
8799 system
Ranked C

ALMA Proposals CoI

Cycle 4 2016.1.00104.S
Double-ring debris disks at 10s of au:
probing how far out planets can form?
PI: S. Marino - Ranked B

Teaching & Outreach Experience - Side activities

- 2015-2016 *Organization of Seminars*
IA-PUC Seminars & MAD Discs and Planets Seminar Series
Santiago, Chile
- 2015 *PUC Summer & Winter Undergrad projects*
Supervision of an undergrad student on a short research project
IA-PUC, Santiago, Chile
- May 2015 *Activity with middle-school students*
Build your spectroscope with a cereal box
Atlanta, Georgia, USA
- Since 2015 *Administration of a forum*
Questions-Answers between a broad audience and professionals
Facebook page "Astronomie et Sciences de l'Univers"
- Jan. 2015 *Oral presentation to high-school students*
How to become an astronomer in the French University system
Lycée de l'Albanais, Rumilly, France
- 2011-2014 *Welcome groups during observation evenings & Leading school visits*
Popularisation of astronomy, eye & telescope observations,
discovery of the Solar System & observations of the Sun
IPAG, Grenoble, France
- 2010-2011 *Programming with the Maple software*
Preparatory class for Grandes Écoles, Lycée Champollion, Grenoble, France
- 2002-2014 *Mathematics, Physics & Chemistry (Highschool level)*
Private teacher
- 2008-2011 *Mathematics, Physics & Chemistry (Highschool level)*
2A Maths & Lycée Vaugelas, Chambéry, France

Conferences, Colloquiums, Workshops, Seminars, etc...

- May 2016 *ESO Conference* - Santiago, Chile
Resolving planet formation in the era of ALMA and extreme AO
- Contributed talk Mean-motion resonances with eccentric planets as a source of exocomets and exozodiacal dust belts
- Nov. 2015 *Extreme Solar Systems III* - Hawaii, United States
- Proceedings Resolving the Planetsimal Belt of HR 8799 with ALMA
M. Booth, A. Jordan, A. Hales, S. Casassus, B. Dent, V. Faramaz, L. Matrà
- Sep. 2015 *Astrobiology and Planetary Atmospheres* - ESO, Santiago, Chile
- May 2015 *Caltech Workshop* - Pasadena, United States
Hot Dust around Main Sequence Stars
- Invited review talk From exocomets to exozodis
- May 2015 *IAU Symposium 314* - Atlanta, United States
Young Stars & Planets Near the Sun
- Contributed talk A Possible Dynamical History for the Fomalhaut System
Proceedings IAU 314 V. Faramaz
- Sep. 2014 *30 yrs of Beta Pic and debris discs studies* - Paris, France
- Contributed talk Insights on the dynamical history of the Fomalhaut system - Investigating the Fom c hypothesis
Proceedings V. Faramaz, H. Beust, J.-C. Augereau, P. Kalas, J. Graham
- June 2013 *IAU Symposium 299* - Victoria, BC, Canada
Exploring the Formation and Evolution of Planetary Systems
- Poster Planetary Systems Dynamics Eccentric patterns in debris disks & Planetary migration in binary system
Proceedings IAU 299 V. Faramaz, H. Beust, J.-C. Augereau, A. Bonsor, P. Thébault, Y. Wu, J. P. Marshall, C. del Burgo, S. Ertel, C. Eiroa, B. Montesinos, A. Mora