

PROFILE

First name: Alexandre
Middle names: Yuichiro Kléber
Last name: BOUQUIN

Date of birth: September 19, 1979
Place of birth: Singapore
Citizenships:

Dual French / Japanese citizen

Japanese name:
田中勇一郎 (TANAKA YUICHIRO)

Marital status: married to
田中一恵 (TANAKA KAZUE)

CONTACT

Address: Universidad Complutense de Madrid
Dept. de Astrofísica y CC de la Atmósfera
Avenida Complutense s/n,
Madrid, 28040, MADRID, SPAIN
Phone (Day/Night): +34 6-3882-9661
Fax (Work): +34 91-394-4635

E-mail1 (preferred): abouquin@fis.ucm.es

E-mail2: alex.bouquin@gmail.com

URL1: <https://guaix.fis.ucm.es/dagal/dagal.php>

URL2 (old): www.alexandrebouquin.com

Skype ID: abouquin

Career milestones

- 2017: Second first-author paper in ApJS
- 2017: GTC/MEGARA Online Exposure Time Calculator v.1.0.1 released
- 2016: GTC/OSIRIS/MOS observation, 4 hours awarded as P.I.
- 2015: First first-author paper in ApJL
- 2015: GTC/OSIRIS/MOS observation, 15 hours awarded as P.I.
- 2014: GTC/OSIRIS/TF observation 28 hours awarded as P.I.
- 2013: GTC/OSIRIS/TF observation 20 hours awarded as P.I.
- 2012: FP7/Marie-Curie Fellow
- 2008: Self-employed as educational/industrial astronomy video creator.
- 2008: Director of the first 3D full-dome movie at the Synra dome in Japan.
- 2008: Science Producer (NAOJ)
- 2007: MSc Astrophysics, University of Toronto
- 2005: Reinhardt Fellowship, University of Toronto
- 2004: Research Assistant, Gemini Northern Observatory
- 2004: BSc Astronomy major with Honor, and math minor, U. Hawai'i at Hilo

Scientific interests

Formation and evolution of galaxies, star formation and morphology of galaxies, UV to IR emission in galaxies, XUV-disk galaxies, galaxy environments, high-redshift objects. Observational astronomy, instrumentation, and methods.

Education

- Present: Finishing PhD. Anticipated date of obtention: End of 2017.
PhD Thesis Title: "UV tracing of the recent star formation activity in galaxy disks within the S⁴G survey: from strangulation to XUV emission"
- 2012 - present: PhD student, Marie Curie Fellow (FP7/Early-Stage Researcher)
(Universidad Complutense de Madrid, Spain)
- 2005 - 2007: MSc Astronomy & Astrophysics, Reinhardt Fellow
(University of Toronto)
- 2004 - 2005: Research assistant of Dr. Kathy Roth (Gemini Northern Observatory)

Curriculum Vitae: Alexandre Y. K. Bouquin

- 2000 - 2004: BSc Astronomy with Honors, minors in Physics and Math (University of Hawai'i at Hilo, U.S.A.)
1998 - 2000: CPGE Math Sup. (Lycée Buffon, Paris, France)
1986 - 1997: Baccalauréat Scientifique (Lycée Franco-Japonais de Tokyo, Japan)

Employments

- 2015 - 2017: Contracted by the MEGARA project until June 2017 (Universidad Complutense de Madrid)
AYA2016-75808-R, and
AYA2013-46724-P
- 2012 - 2015: Contracted as Marie-Curie Fellow (Universidad Complutense de Madrid)
PITN-GA-2011-289313: DAGAL network from the People Programme (Marie Curie Actions) of the European Union's Seventh Framework Programme FP7/2007-2013/ under REA grant agreement number mentioned above.
- 2008 - 2012: Freelance Digital Media Creator and Science Communicator
Job description: Creation of Full-Dome, stereoscopic astronomical video contents for planetariums such as "Cosmic Discoveries" (Science Museum in Tokyo), Full-HD stereoscopic movies for science museums (Nagoya City Science Museum, Hamamatsu Science Museum "Space Travel Q"), as well as educational DVDs (Tokyo Shoseki Co., Ltd., Gakken Holdings Co., Ltd.) (Note: this is only a partial list).
Astronomy lecturer (Mitaka Network University).
- 2005 - 2007: Teaching Assistant, Tutor,
Junior, then Senior Campus Observer (University of Toronto)
- 2004 - 2005: Research Assistant (Gemini Northern Observatory)
- 2001 - 2004: Teaching Assistant, Tutor (University of Hawai'i at Hilo)

Awards and certificates

- 2012: Marie Curie Fellow (EU)
2010: Star's semi-somelier (Mitaka Network University)
2008: Mitaka SOHO certificate (Mitaka Network University)
2008: Science Culture Producer (NAOJ)
2005: Reinhardt Fellowship (University of Toronto)
2004: Who's Who Among Students (University of Hawai'i at Hilo)
2003: Dean's list 2003 (University of Hawai'i at Hilo)
2002: Dean's list 2002 (University of Hawai'i at Hilo)
2001: Best Volunteer of the Year (Mauna Kea Visitor Information Station)

Refereed Publications

1. **Bouquin, Alexandre Y. K.**; Gil de Paz, Armando; Muñoz-Mateos, Juan Carlos; Boissier, Samuel; Sheth, Kartik; Zaritsky, Dennis; Peletier, Reynier F.; Knapen, Johan H.; Gallego, Jesús, "**The GALEX/S4G Surface Brightness and Color Profiles Catalog - I. Surface Photometry and Color Gradients of Galaxies**", 2017, Astrophysical Journal Supplement Series in press. [arXiv:1710.00955](https://arxiv.org/abs/1710.00955).
2. Muñoz-Mateos, Juan Carlos; Sheth, Kartik; Regan, Michael; Kim, Taehyun; Laine, Jarkko; Erroz-Ferrer, Santiago; Gil de Paz, Armando; Comeron, Sebastien; Hinz, Joannah; Laurikainen, Eija; Salo, Heikki; Athanassoula, E.; Bosma, Albert; **Bouquin, Alexandre Y. K.**; Schinnerer, Eva; Ho, Luis; Zaritsky, Dennis; Gadotti, Dimitri A.; Madore, Barry; Holwerda, Benne; Menéndez-Delmestre, Karín; Knapen, Johan H.; Meidt, Sharon; Querejeta, Miguel; Mizusawa, Trisha; Seibert, Mark; Laine, Seppo; Courtois, Helene, "**The Spitzer Survey of Stellar Structure in Galaxies (S4G): Stellar Masses, Sizes, and Radial Profiles for 2352 Nearby Galaxies**", 2015, [Astrophysical Journal Supplement Series, 219, 3](https://ui.adsabs.org/abs/2015ApJS...219...3B).
3. Koda, Jin; Yagi, Masafumi; Komiyama, Yutaka; Boissier, Samuel; Boselli, Alessandro; **Bouquin, Alexandre Y. K.**; Donovan Meyer, Jennifer; Gil de Paz, Armando; Imanishi, Masatoshi; Madore, Barry F.; Thilker, David A., "**Discovery of New Dwarf Galaxy Near the Isolated Spiral Galaxy NGC 6503**", 2015, [Astrophysical Journal Letters, 802, 24](https://ui.adsabs.org/abs/2015ApJL...802...24B).
4. **Bouquin, Alexandre Y. K.**; Gil de Paz, Armando; Boissier, Samuel; Muñoz-Mateos, Juan-Carlos; Sheth, Kartik; Zaritsky, Dennis; Laine, Jarkko; Gallego, Jesús; Peletier, Reynier F.; Röck, Benjamin R.; Knapen, Johan H., "**The GALEX/S4G UV-IR Color-Color Diagram: Catching Spiral Galaxies Away from the Blue Sequence**", 2015, [Astrophysical Journal Letters, 800, 19](https://ui.adsabs.org/abs/2015ApJL...800...19B).
5. Zaritsky, Dennis; Gil de Paz, Armando; **Bouquin, Alexandre Y. K.**, "**The connection between the UV colour of early-type galaxies and the stellar initial mass function revisited**", 2015, [Monthly Notices of the Royal Astronomical Society, 446, 2030](https://ui.adsabs.org/abs/2015MNRAS...446..2030B).
6. Zaritsky, Dennis; Gil de Paz, Armando; **Bouquin, Alexandre Y. K.**, "**An Empirical Connection between the Ultraviolet Color of Early-type Galaxies and the Stellar Initial Mass Function**", 2014, [Astrophysical Journal Letters, 780, 1](https://ui.adsabs.org/abs/2014ApJL...780...1B).

Conference Proceedings

1. **Bouquin, A. Y. K.**; Gil de Paz, A.; Boissier, S.; Muñoz-Mateos, J. C., "**Gas Accretion and Consumption in Disks in the Local Universe from the S⁴G/DAGAL Survey**", 2014, [ASP Conference Series, Vol. 480, 2014, p.221](https://ui.adsabs.org/abs/2014ASPC...480..221B)
2. **Bouquin, Alexandre Y. K.**; Gil de Paz, Armando, "**UV-IR color profiles of the outer regions of 2K nearby S⁴G galaxies**", 2017, Formation and Evolution of Galaxy Outskirts, Proceedings of the International Astronomical Union, [IAU Symposium, Volume 321, pp. 257-259](https://ui.adsabs.org/abs/2017IAUSym321..257B)

Curriculum Vitae: Alexandre Y. K. Bouquin

Conferences participation and public lectures

(talk contribution, ^poster contribution, *other)

*October 2017	Toledo, Spain, MOSAIC meeting " Spectroscopic Surveys with the ELT: A Gigantic Step into the Deep Universe " (LOC)
September 2017	UCM, Madrid, Spain, RIA meeting " Proposing and processing MEG-ARA observations with GTC " (speaker and LOC).
March 2016	Toledo, Spain, IAU symposium 321 " Formation and Evolution of Galaxy Outskirts " (speaker and LOC).
February 2016	CSIC, Madrid, Spain, RIA meeting " Jornada abierta sobre el instrumento MEGARA de GTC " (speaker and LOC).
^June 2015	Tenerife, Spain, " EWASS conference ".
April 2015	IAC, Tenerife, Spain, " Journal Club "
March 2015	MPIA, Heidelberg, Germany, " DAGAL 3rd annual meeting "
December 2014	UCM, Madrid, Spain, " Jornadas de Doctorandos "
October 2014	Lorentz Center@Oort, Leiden, The Netherlands, workshop " Decoding the Assembly History of Galaxies at the Lorentz Center "
^September 2014	Bologna, Italy, " Evolving Galaxies in Evolving Environments "
May 2014	Groningen, The Netherlands, " Kapteyn Institute Lunch Talk "
May 2014	Lorentz Center@Snellius, Leiden, The Netherlands, " The Passage of Light within Spiral Galaxies "
March 2014	Madrid, Spain, Universidad Complutense de Madrid Journal Club
February 2014	Tenerife, Spain, " DAGAL 2nd annual meeting "
December 2013	HI, U.S.A., " Subaru Telescope Journal Club "
November 2013	ESO, Santiago, Chile. " Deconstructing Galaxies: Structure and Morphology in the Era of Large Surveys " (MORPH2013)
August 2013	Arkansas, U.S.A., " Structure and Dynamics of Disk Galaxies "
March 2013	Oulu, Finland, " DAGAL 1st annual meeting "
*2010 - 2012	Astronomy lectures, " Galaxies explained with physics, an intermediate astronomy course " (in Japanese only), a collaboration with Hot-Star, Inc. and the Mitaka Network University (high-school/college level course).

Telescope Time Awarded

2016 - 2017:	2016B GTC/OSIRIS MOS observations (4 hours) (as P.I.)
2015 - 2016:	2015B GTC/OSIRIS MOS observations (15 hours) (as P.I.)
2015:	2015A-DDT GTC/OSIRIS MOS observations (1.5 hours) (as co-I.) (P.I. Johan Knapen) Director's Discretionary Time.
2014 - 2015:	2014B GTC/OSIRIS Tunable Filter observations (28 hours) (as P.I.)
2014:	Isaac Newton Telescope observations, Jan.30 to Feb.01 (2 nights). Training. (P.I. Johan Knapen)
2013 - 2014:	2013B GTC/OSIRIS Tunable Filter observations (20 hours) (as P.I.)
2013:	2013B Subaru/SuprimeCam observations, Dec.1 to Dec.3 (3 nights) (as co-I.) (P.I. Jin Koda)

Trainings

March 2015:	Writing workshop, MPIA, Heidelberg, Germany.
June 2014:	Simulations as a Tool for Observers, Marseille, France

Curriculum Vitae: Alexandre Y. K. Bouquin

- January 2014: Observational hands-on training with the Isaac Newton Telescope, El Roque de los Muchachos, La Palma, Canarias, Spain
- January 2014: Project Management Course, IAC, Spain
- Sept. 2013: Fifth European Radio Interferometry School ERIS 2013, Dwingeloo, The Netherlands

Research and Academic Projects Involvement

CURRENT:

- 2012 - present: PhD thesis project.
Detailed Anatomy of Galaxies (DAGAL) Early-Stage Researcher (Supervisor: Armando Gil de Paz, Universidad Complutense de Madrid). The objectives of this research project are to analyze the spatially-resolved 3.6 micron Spitzer/IRAC and GALEX FUV and NUV surface brightness and color data, to determine the fraction of extended-UV (XUV) disks in a volume-limited sample such as the S⁴G/DAGAL sample of galaxies, and to characterize the properties of these XUV disks and their role on the overall evolution of galaxies within the bigger picture.
PITN-GA-2011-289313: DAGAL network from the People Programme (Marie Curie Actions) of the European Union's Seventh Framework Programme FP7/2007-2013/ under REA grant agreement number mentioned above.

- 2016 - present: responsible for the [MEGARA Online Exposure Time Calculator](#). Officially released v.1.0.1 in August 2017.
MEGARA Project: 6.2M €
AYA2016-75808-R "Scientific exploitation and technologic synergies of MEGARA", January 2017- December 2018. P.I. A. Gil de Paz / A. Castillo Morales. 563.618,00 €. Financing entity: MINECO
AYA2013-46724-P "Precision Extragalactic Astrophysics: Preparing the Scientific Exploitation of MEGARA", of I+D in the category of "Project of Excellence". 2014-2017. P.I. A. Gil de Paz y N. Cardiel. 549.340 €.

PAST:

- Fall 2006: Observations of fast-rotating M dwarfs: IRAF data reduction and analysis (P.I. Dr. Stefan Mochnecki, U. of Toronto).
- Spring 2006: SuperNovae Legacy Survey (SNLS): SNe Type II-P. IDL data reduction and analysis (P.I. Dr. Raymond Carlberg, U. of Toronto).
- 2004 - 2005: Gemini Deep Deep Survey (GDDS): high-z galaxies. Morphological classification (P.I. Dr. Roberto Abraham, U. of Toronto).
- 2003 - 2004: Search for Intergalactic Globular Clusters: IRAF data reduction and analysis (P.I. Dr. Michael West, U. of Hawai'i at Hilo).
- 2002 - 2003: Data acquisition of the β Cephei star nu Eridani (P.I. Dr. Richard Crowe, U. of Hawai'i at Hilo).

Other professional activities

- 2008 - 2012: Astronomy movie contents director, editor and creator, specialized in stereoscopic dome screen projections and high definition formats (see my past website for a portfolio).

Curriculum Vitae: Alexandre Y. K. Bouquin

Skills:

Language skills:

Speaking/reading/writing proficiency in **French** (mother language) (fluent), **Japanese** (mother language) (fluent), **English** (fluent), Good **Spanish** level, and some **Hawaiian**.

Writing skills:

Astronomy generalization articles in French. Presentations in Japanese.
Scientific reports and article publications in English.

Computer skills:

Competence in writing documents, charts and presentation slides. Network security conscious. Copyrights and other legal issues conscious. Know-how in digital designs and videos. Specialized know-how in 3D (stereoscopic) visualizations for full-dome environment and flat screen HD formats.

OS: Mac OS X, Windows, Linux (Ubuntu and Fedora).

Softwares: bash, vi, gnuplot, IRAF, DS9, IDL, LaTeX, OpenOffice, MS Word, Apple Keynote, competent with Adobe Creative Suite Photoshop, Illustrator, After Effects, and also with non-Adobe packages such as, Final Cut Pro, Motion, Vue 6, Mitaka, Celestia, SCISS Uniview™, Unity, Django, and more.

Programming languages: python (matplotlib, numpy, astropy, aplpy, and more), HTML/CSS/PHP/javascript/MySQL/Sqlite3, Unix shell script, sed, awk, irafscript, IDL, Objective-C and WebGL.

Social skills:

Knowledgeable in modern astrophysical concepts. Organized work. Ability to work independently as well as in groups. Likeable personality. Ability to lead and guide a team. Ability to work in a multicultural environment. Safety conscious.

Teaching/Tutoring experience:

- 2010 - 2012: Astronomy lecturer (high-school to college level)
- 2009 - 2010: Math tutor (primary school level), Astronomy tutor (college level)
- 2005 - 2007: Astronomy tutor (college level)
- 2004 - 2005: Astronomy mentor for high-school student
- 2003 - 2004: Math and Physics tutor for college student
- 2001 - 2003: Math, Physics, Astronomy, French and Japanese tutor helping hundreds of students in difficulty at the U. of Hawai'i at Hilo The Learning Center.

Astronomy Volunteering/Outreach:

- August 2014: LOC at "Les Nuits des étoiles", Observatoire Municipal de St Jean-le-Blanc, France. Stargazing volunteer on 200mm Dobson.
- December 2013: Tokyo, Japan, Mitaka Network University Skype Public Outreach talk
- December 2013: Special talk, University of Hawai'i at Hilo, HI, U.S.A.
- July 2013: Observatoire Municipal de St Jean-le-blanc Public Outreach talk St Jean-le-Blanc, France.
- 2007 - 2012: Various events in Tokyo, Japan.
- 2005 - 2007: Public Tour Coordinator, University of Toronto, Canada.
- 2001 - 2005: The Astrorangers EPO team, Big Island, U.S.A.
- 2000 - 2005: Stargazing volunteer (Mauna Kea Visitor Information Station)