Jean Coupon — Curriculum Vitae

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Research activities

- Study of the role of dark matter structures in galaxy evolution.
- Measurement of the stellar and hot gas fractions in halos to identify the mechanisms regulating the star formation rate.
- Probe of the dark matter lensing profiles to constrain the galaxy cluster mass function.
- Investigation of the systematic uncertainties linked to photometric redshifts for cosmic shear.

Experience

2019–present	**Data scientist**, Pictet group, Geneva.
2013–2018	**Assistant researcher** (adjoint scientifique), Astronomy Department, University of Geneva.
2012–2013	**Postdoctoral fellow**, Institute of Astronomy & Astrophysics, Academia Sinica (ASIAA), Taiwan. Supervisor: Prof. Keiichi Umetsu.
2009–2012	**JSPS postdoctoral fellow**, Astronomical Institute, Tohoku University, Japan. Host: Prof. Toshifumi Futamase.

Education

2006–2009	**Ph.D. in Astrophysics**, UPMC (Université Pierre & Marie Curie, Paris), Institut d'Astrophysique de Paris. Grant from the French government. Title: *High redshift galaxies: measurements and cosmological constraints*. Supervisor: Prof. Yannick Mellier.
2004–2006	**Master (M.Sc) in Astronomy & Astrophysics**, UPMC and Université de Montréal, QC, Canada (CREPUQ exchange program). Three-month project at CITA, Toronto, Canada: *The Transit Timing method: how to detect extra-solar planets?* Supervisor: Prof. Norman Murray.
2001–2004	**Licence (B.Sc.) in Physics**, UPMC.

Expertise

- **Observations:** survey design, optical and near-IR imaging data reduction, photometry, software development (Python, C, HSC/LSST pipeline), multi-wavelength catalog combination and distribution, "big data" sample handling (Swot, Venice), databases (mySQL).
- **Science analysis tools:** photometric redshifts (expert in several techniques, development of machine learning algorithms), galaxy clustering, lensing, and abundance matching measurements, magnification bias, redshift enhancement.
- **Problem modelisation:** multi-probe and cross-field (cosmology/galaxy evolution) approach, HOD formalism, bayesian analysis, MCMC, PMC, tree-code algorithms and supervised machine learning code development.

Languages

French: mother tongue, English: bilingual, Japanese: advanced, German: basics.

Teaching

2010–present	Assistant professor qualification from the French government.
2014–2018	TA. Undergraduate course in physics, University of Geneva, 108 hrs.
2007–2008	TA. Undergraduate course in physics, Université Pierre & Marie Curie, Paris, France. 64 hrs (2007) & 42 hrs (2008).
2004–2005	Lecturer at the *Palais de la découverte*, science museum in Paris, France.
2000–2004	Tutorials in physics and mathematics.

Responsibilities & student supervision

2017–2018	Co-supervisor of one PhD student.
2013–2018	Work package leader in Euclid, tests of photo-z code performance (12 people).
2013–2018	Leader of the preparation of photo-z data challenges in Euclid (about 20 people). PHZ and EXT/MER interface.
2013–2018	Mentoring/guidance of four Ph.D students and two postdocs.
2012–2018	Supervision of four students for their Master or Bachelor project.
2012–2018	Co-chair of the external data working group in the HSC-SSP project.

Selected grants and awards

2017	JSPS Bridge fellowship (PI).
2017	MERAC fellowship (PI).
2016	Inter-university Unige-Princeton research grant, 10 k$ (Unige PI).
2013	Proposal: CLAUDS, CFHT Large-Area U-band Deep Survey, 380 hrs (co-I).
2013	Grant from ASIAA to support a student in Master (co-PI).
2012	Proposal: Hyper-Suprime-Cam Subaru Strategic Program, 300 nights (co-I).
2009	JSPS postdoctoral fellowship (co-PI),
2009	grants-in-aid for Scientific Research, 10 k$ (co-PI).
2009	Ph.D. grant from the French government.
2005	CREPUQ exchange program and grant from the Paris-area council.

Event organisation and committees

2014–2018	Proposal reviewer for CFHT.
2008–2018	Peer reviewer for MNRAS, A&A and ApJ.
2013	Initiator, LOC and SOC member for the Photo-z workshop in Taipei.
2006–2007	LOC member for several meetings organised at IAP.

Outreach

2013–2018	Switzerland: *nuit de la science*, *journées portes ouvertes*.
2010	Japan: JSPS Science Dialogue program.
2006–2009	France: numerous public astronomical events, Paris Observatory visits.
2006	Canada: Astronomy night (University of Toronto).

Participation in international research projects

2013–2018	**Euclid**: mission preparation, team leadership.
2013–2018	**COSMOS/ultraVISTA/SPLASH**: scientific project.
2012–2018	**XXL**: scientific project.
2010–2018	**HSC-SSP**: Co-I, data reduction, leadership, scientific project.
2009–2015	**CFHTLenS**: Co-I, scientific project.
2008–2018	**VIPERS**: preparation, scientific project.

Publications and communications

Refereed publications	121
First author or major contribution	18
Total number of citations	$\sim 8\,300$
Mean number of citations	70
H-index	48

1 Refereed publications

1.1 First author or major contribution

1. *Testing the accuracy of clustering redshifts with simulations* Scottez, V., Benoit-Lévy, A., **Coupon, J.**, Ilbert, O., & Mellier, Y. **2018, Monthly Notices of the Royal Astronomical Society, 474, 3921.**

2. *Photometric redshifts for Hyper Suprime-Cam Subaru Strategic Program Data Release 1* Tanaka, M., **Coupon, J.**, Hsieh, B.-C., Mineo, S., Nishizawa, A. J., Speagle, J., Furusawa, H., Miyazaki, S., & Murayama, H. **2018, Publications of the Astronomical Society of Japan, 70, S9.**

3. *The bright-star masks for the HSC-SSP survey* **Coupon, J.**, Czakon, N., Bosch, J., Komiyama, Y., Medezinski, E., Miyazaki, S., & Oguri, M. **2018, Publications of the Astronomical Society of Japan, 70, S7.**

4. *The COSMOS2015 galaxy stellar mass function . Thirteen billion years of stellar mass assembly in ten snapshots* Davidzon, I., Ilbert, O., Laigle, C., **Coupon, J.**, McCracken, H. J., Delvecchio, I., Masters, D., Capak, P., Hsieh, B. C., Le Fèvre, O., Tresse, L., Bethermin, M., Chang, Y.-Y., Faisst, A. L., Le Floc'h, E., Steinhardt, C., Toft, S., Aussel, H., Dubois, C., Hasinger, G., Salvato, M., Sanders, D. B., Scoville, N., & Silverman, J. D. **2017, Astronomy and Astrophysics, 605, A70.**

5. *Testing the Large-scale Environments of Cool-core and Non-cool-core Clusters with Clustering Bias* Medezinski, E., Battaglia, N., **Coupon, J.**, Cen, R., Gaspari, M., Strauss, M. A., & Spergel, D. N. **2017, The Astrophysical Journal, 836, 54.**

6. *The XXL Survey. XIII. Baryon content of the bright cluster sample* Eckert, D., Ettori, S., **Coupon, J.**, Gastaldello, F., Pierre, M., Melin, J.-B., Le Brun, A. M. C., McCarthy, I. G., Adami, C., Chiappetti, L., Faccioli, L., Giles, P., Lavoie, S., Lefèvre, J. P., Lieu, M., Mantz, A., Maughan, B., McGee, S., Pacaud, F., Paltani, S., Sadibekova, T., Smith, G. P., & Ziparo, F. **2016, Astronomy and Astrophysics, 592, A12.**

7. *The VIPERS Multi-Lambda Survey. II. Diving with massive galaxies in 22 square degrees since $z = 1.5$* Moutard, T., Arnouts, S., Ilbert, O., **Coupon, J.**, Davidzon, I., Guzzo, L., Hudelot, P., McCracken, H. J., Van Waerbeke, L., Morrison, G. E., Le Fèvre, O., Comte, V., Bolzonella, M., Fritz, A., Garilli, B., & Scodeggio, M. **2016, Astronomy and Astrophysics, 590, A103.**

8. *The VIPERS Multi-Lambda Survey. I. UV and near-IR observations, multi-colour catalogues, and photometric redshifts* Moutard, T., Arnouts, S., Ilbert, O., **Coupon, J.**, Hudelot, P., Vibert, D., Comte, V., Conseil, S., Davidzon, I., Guzzo, L., Llebaria, A., Martin, C., McCracken, H. J., Milliard, B., Morrison, G., Schiminovich, D., Treyer, M., & Van Werbaeke, L. **2016, Astronomy and Astrophysics, 590, A102.**

9. *The galaxy-halo connection from a joint lensing, clustering and abundance analysis in the CFHTLenS/VIPERS field* **Coupon, J.**, Arnouts, S., van Waerbeke, L., Moutard, T., Ilbert, O., van Uitert, E., Erben, T., Garilli, B., Guzzo, L., Heymans, C., Hildebrandt, H., Hoekstra, H., Kilbinger, M., Kitching, T., Mellier, Y., Miller, L., Scodeggio, M., Bonnett, C., Branchini, E., Davidzon, I., De Lucia, G., Fritz, A., Fu, L., Hudelot, P., Hudson, M. J., Kuijken, K.,

Leauthaud, A., Le Fèvre, O., McCracken, H. J., Moscardini, L., Rowe, B. T. P., Schrabback, T., Semboloni, E., & Velander, M. **2015, Monthly Notices of the Royal Astronomical Society, 449, 1352.**

10. *Comparing gravitational redshifts of SDSS galaxy clusters with the magnified redshift enhancement of background BOSS galaxies* Jimeno, P., Broadhurst, T., **Coupon, J.**, Umetsu, K., & Lazkoz, R. **2015, Monthly Notices of the Royal Astronomical Society, 448, 1999.**

11. *CFHTLenS: co-evolution of galaxies and their dark matter haloes* Hudson, M. J., Gillis, B. R., **Coupon, J.**, Hildebrandt, H., Erben, T., Heymans, C., Hoekstra, H., Kitching, T. D., Mellier, Y., Miller, L., Van Waerbeke, L., Bonnett, C., Fu, L., Kuijken, K., Rowe, B., Schrabback, T., Semboloni, E., van Uitert, E., & Velander, M. **2015, Monthly Notices of the Royal Astronomical Society, 447, 298.**

12. *CFHTLenS: the relation between galaxy dark matter haloes and baryons from weak gravitational lensing* Velander, M., van Uitert, E., Hoekstra, H., **Coupon, J.**, Erben, T., Heymans, C., Hildebrandt, H., Kitching, T. D., Mellier, Y., Miller, L., Van Waerbeke, L., Bonnett, C., Fu, L., Giodini, S., Hudson, M. J., Kuijken, K., Rowe, B., Schrabback, T., & Semboloni, E. **2014, Monthly Notices of the Royal Astronomical Society, 437, 2111.**

13. *The VIMOS Public Extragalactic Redshift Survey (VIPERS). A precise measurement of the galaxy stellar mass function and the abundance of massive galaxies at redshifts 0.5 <z <1.3* Davidzon, I., Bolzonella, M., **Coupon, J.**, Ilbert, O., Arnouts, S., de la Torre, S., Fritz, A., De Lucia, G., Iovino, A., Granett, B. R., Zamorani, G., Guzzo, L., Abbas, U., Adami, C., Bel, J., Bottini, D., Branchini, E., Cappi, A., Cucciati, O., Franzetti, P., Fumana, M., Garilli, B., Krywult, J., Le Brun, V., Le Fèvre, O., Maccagni, D., Małek, K., Marulli, F., McCracken, H. J., Paioro, L., Peacock, J. A., Polletta, M., Pollo, A., Schlagenhaufer, H., Scodeggio, M., Tasca, L. A. M., Tojeiro, R., Vergani, D., Zanichelli, A., Burden, A., Di Porto, C., Marchetti, A., Marinoni, C., Mellier, Y., Moscardini, L., Moutard, T., Nichol, R. C., Percival, W. J., Phleps, S., & Wolk, M. **2013, Astronomy and Astrophysics, 558, A23.**

14. *Cluster Lensing Profiles Derived from a Redshift Enhancement of Magnified BOSS-survey Galaxies* **Coupon, J.**, Broadhurst, T., & Umetsu, K. **2013, The Astrophysical Journal, 772, 65.**

15. *Galaxy clustering in the CFHTLS-Wide: the changing relationship between galaxies and haloes since z ∼1.2∗* **Coupon, J.**, Kilbinger, M., McCracken, H. J., Ilbert, O., Arnouts, S., Mellier, Y., Abbas, U., de la Torre, S., Goranova, Y., Hudelot, P., Kneib, J.-P., & Le Fèvre, O. **2012, Astronomy and Astrophysics, 542, A5.**

16. *CFHTLenS: improving the quality of photometric redshifts with precision photometry* Hildebrandt, H., Erben, T., Kuijken, K., van Waerbeke, L., Heymans, C., **Coupon, J.**, Benjamin, J., Bonnett, C., Fu, L., Hoekstra, H., Kitching, T. D., Mellier, Y., Miller, L., Velander, M., Hudson, M. J., Rowe, B. T. P., Schrabback, T., Semboloni, E., & Benítez, N. **2012, Monthly Notices of the Royal Astronomical Society, 421, 2355.**

17. *The power spectrum from the angular distribution of galaxies in the CFHTLS-Wide fields at redshift ∼0.7* Granett, B. R., Guzzo, L., **Coupon, J.**, Arnouts, S., Hudelot, P., Ilbert, O., McCracken, H. J., Mellier, Y., Adami, C., Bel, J., Bolzonella, M., Bottini, D., Cappi, A., Cucciati, O., de la Torre, S., Franzetti, P., Fritz, A., Garilli, B., Iovino, A., Krywult, J., Le Brun, V., Le Fevre, O., Maccagni, D., Malek, K., Marulli, F., Meneux, B., Paioro, L., Polletta, M., Pollo, A., Scodeggio, M., Schlagenhaufer, H., Tasca, L., Tojeiro, R., Vergani, D., & Zanichelli, A. **2012, Monthly Notices of the Royal Astronomical Society, 421, 251.**

18. *Photometric redshifts for the CFHTLS T0004 deep and wide fields* **Coupon, J.**, Ilbert, O., Kilbinger, M., McCracken, H. J., Mellier, Y., Arnouts, S., Bertin, E., Hudelot, P., Schultheis, M., Le Fèvre, O., Le Brun, V., Guzzo, L., Bardelli, S., Zucca, E., Bolzonella, M., Garilli, B., Zamorani, G., Zanichelli, A., Tresse, L., & Aussel, H. **2009, Astronomy and Astrophysics, 500, 981.**

1.2 Co-author

19. *Survey of Gravitationally lensed Objects in HSC Imaging (SuGOHI) - V. Group-to-cluster scale lens search from the HSC-SSP Survey* Jaelani, A. T., More, A., Oguri, M., Sonnenfeld, A., Suyu, S. H., Rusu, C. E., Wong, K. C., Chan, J. H. H., Kayo, I., Lee, C.-H., Chao, D. C.-Y., **Coupon, J.**, Inoue, K. T., & Futamase, T. **2020, Monthly Notices of the Royal Astronomical Society, 495, 1291.**

20. *Outside the Lyman-break box: detecting Lyman continuum emitters at 3.5 ¡ z ¡ 5.1 with CLAUDS* Meštrić, U., Ryan-Weber, E. V., Cooke, J., Bassett, R., Sawicki, M., Faisst, A. L., Kakiichi, K., Inoue, A. K., Rafelski, M., Prichard, L. J., Arnouts, S., Moutard, T., **Coupon, J.**, Golob, A., & Gwyn, S. **2020, Monthly Notices of the Royal Astronomical Society, 494, 4986.**

21. *Survey of Gravitationally lensed Objects in HSC Imaging (SuGOHI). IV. Lensed quasar search in the HSC survey* Chan, J. H. H., Suyu, S. H., Sonnenfeld, A., Jaelani, A. T., More, A., Yonehara, A., Kubota, Y., **Coupon, J.**, Lee, C.-H., Oguri, M., Rusu, C. E., & Wong, K. C. **2020, Astronomy and Astrophysics, 636, A87.**

22. *UV and U-band luminosity functions from CLAUDS and HSC-SSP - I. Using four million galaxies to simultaneously constrain the very faint and bright regimes to $z \sim 3$* Moutard, T., Sawicki, M., Arnouts, S., Golob, A., **Coupon, J.**, Ilbert, O., Yang, X., & Gwyn, S. **2020, Monthly Notices of the Royal Astronomical Society, 494, 1894.**

23. *The synthetic Emission Line COSMOS catalogue: H_α and [O II] galaxy luminosity functions and counts at $0.3 < z < 2.5$* Saito, S., de la Torre, S., Ilbert, O., Dubois, C., Yabe, K., & **Coupon, J. 2020, Monthly Notices of the Royal Astronomical Society, 494, 199.**

24. *Euclid preparation. VI. Verifying the performance of cosmic shear experiments* Euclid Collaboration, Paykari, P., Kitching, T., Hoekstra, H., Azzollini, R., Cardone, V. F., Cropper, M., Duncan, C. A. J., Kannawadi, A., Miller, L., Aussel, H., Conti, I. F., Auricchio, N., Baldi, M., Bardelli, S., Biviano, A., Bonino, D., Borsato, E., Bozzo, E., Branchini, E., Brau-Nogue, S., Brescia, M., Brinchmann, J., Burigana, C., Camera, S., Capobianco, V., Carbone, C., Carretero, J., Castander, F. J., Castellano, M., Cavuoti, S., Charles, Y., Cledassou, R., Colodro-Conde, C., Congedo, G., Conselice, C., Conversi, L., Copin, Y., **Coupon, J.**, Courtois, H. M., Da Silva, A., Dupac, X., Fabbian, G., Farrens, S., Ferreira, P. G., Fosalba, P., Fourmanoit, N., Frailis, M., Fumana, M., Galeotta, S., Garilli, B., Gillard, W., Gillis, B. R., Giocoli, C., Graciá-Carpio, J., Grupp, F., Hormuth, F., Ilić, S., Israel, H., Jahnke, K., Keihanen, E., Kermiche, S., Kilbinger, M., Kirkpatrick, C. C., Kubik, B., Kunz, M., Kurki-Suonio, H., Laureijs, R., Le Mignant, D., Ligori, S., Lilje, P. B., Lloro, I., Maciaszek, T., Maiorano, E., Marggraf, O., Markovic, K., Martinet, N., Marulli, F., Massey, R., Mauri, N., Medinaceli, E., Mei, S., Mellier, Y., Meneghetti, M., Metcalf, R. B., Moresco, M., Moscardini, L., Munari, E., Neissner, C., Nichol, R. C., Niemi, S., Nutma, T., Padilla, C., Paltani, S., Pasian, F., Pettorino, V., Pires, S., Polenta, G., Raison, F., Renzi, A., Rhodes, J., Romelli, E., Roncarelli, M., Rossetti, E., Saglia, R., Sakr, Z., Sánchez, A. G., Sapone, D., Scaramella, R., Schneider, P., Schrabback, T., Scottez, V., Secroun, A., Serrano, S., Sirignano, C., Sirri, G., Stanco, L., Starck, J.-L., Sureau, F., Tallada-Crespí, P., Taylor, A., Tenti, M., Tereno, I., Toledo-Moreo, R., Torradeflot, F., Valenziano, L., Vannier, M., Vassallo, T., Zoubian, J., & Zucca, E. **2020, Astronomy and Astrophysics, 635, A139.**

25. *LARgE Survey - II. The dark matter haloes and the progenitors and descendants of ultramassive passive galaxies at cosmic noon* Cheema, G. K., Sawicki, M., Arcila-Osejo, L., Golob, A., Moutard, T., Arnouts, S., & **Coupon, J. 2020, Monthly Notices of the Royal Astronomical Society, 494, 804.**

26. *Weak-lensing Analysis of X-Ray-selected XXL Galaxy Groups and Clusters with Subaru HSC Data* Umetsu, K., Sereno, M., Lieu, M., Miyatake, H., Medezinski, E., Nishizawa, A. J., Giles, P., Gastaldello, F., McCarthy, I. G., Kilbinger, M., Birkinshaw, M., Ettori, S., Okabe, N., Chiu, I.-N., **Coupon, J.**, Eckert, D., Fujita, Y., Higuchi, Y., Koulouridis, E., Maughan,

B., Miyazaki, S., Oguri, M., Pacaud, F., Pierre, M., Rapetti, D., & Smith, G. P. **2020, The Astrophysical Journal, 890, 148.**

27. *X-ray study of the double source plane gravitational lens system Eye of Horus observed with XMM-Newton* Tanaka, K., Tsuji, A., Akamatsu, H., Chan, J. H. H., **Coupon, J.**, Egami, E., Finet, F., Fujimoto, R., Ichinohe, Y., Jaelani, A. T., Lee, C.-H., Mitsuishi, I., More, A., More, S., Oguri, M., Okabe, N., Ota, N., Rusu, C. E., Sonnenfeld, A., Tanaka, M., Ueda, S., & Wong, K. C. **2020, Monthly Notices of the Royal Astronomical Society, 491, 3411.**

28. *The CFHT large area U-band deep survey (CLAUDS)* Sawicki, M., Arnouts, S., Huang, J., **Coupon, J.**, Golob, A., Gwyn, S., Foucaud, S., Moutard, T., Iwata, I., Liu, C., Chen, L., Desprez, G., Harikane, Y., Ono, Y., Strauss, M. A., Tanaka, M., Thibert, N., Balogh, M., Bundy, K., Chapman, S., Gunn, J. E., Hsieh, B.-C., Ilbert, O., Jing, Y., LeFèvre, O., Li, C., Matsuda, Y., Miyazaki, S., Nagao, T., Nishizawa, A. J., Ouchi, M., Shimasaku, K., Silverman, J., de la Torre, S., Tresse, L., Wang, W.-H., Willott, C. J., Yamada, T., Yang, X., & Yee, H. K. C. **2019, Monthly Notices of the Royal Astronomical Society, 489, 5202.**

29. *HORIZON-AGN virtual observatory - 2. Template-free estimates of galaxy properties from colours* Davidzon, I., Laigle, C., Capak, P. L., Ilbert, O., Masters, D. C., Hemmati, S., Apostolakos, N., **Coupon, J.**, de la Torre, S., Devriendt, J., Dubois, Y., Kashino, D., Paltani, S., & Pichon, C. **2019, Monthly Notices of the Royal Astronomical Society, 489, 4817.**

30. *HSC-XD 52: An X-Ray Detected AGN in a Low-mass Galaxy at z∼0.56* Halevi, G., Goulding, A., Greene, J., **Coupon, J.**, Golob, A., Gwyn, S., Johnson, S. D., Moutard, T., Sawicki, M., Suh, H., & Toba, Y. **2019, The Astrophysical Journal, 885, L3.**

31. *Euclid preparation. V. Predicted yield of redshift 7 <z <9 quasars from the wide survey* Euclid Collaboration, Barnett, R., Warren, S. J., Mortlock, D. J., Cuby, J.-G., Conselice, C., Hewett, P. C., Willott, C. J., Auricchio, N., Balaguera-Antolínez, A., Baldi, M., Bardelli, S., Bellagamba, F., Bender, R., Biviano, A., Bonino, D., Bozzo, E., Branchini, E., Brescia, M., Brinchmann, J., Burigana, C., Camera, S., Capobianco, V., Carbone, C., Carretero, J., Carvalho, C. S., Castander, F. J., Castellano, M., Cavuoti, S., Cimatti, A., Clédassou, R., Congedo, G., Conversi, L., Copin, Y., Corcione, L., **Coupon, J.**, Courtois, H. M., Cropper, M., Da Silva, A., Duncan, C. A. J., Dusini, S., Ealet, A., Farrens, S., Fosalba, P., Fotopoulou, S., Fourmanoit, N., Frailis, M., Fumana, M., Galeotta, S., Garilli, B., Gillard, W., Gillis, B. R., Graciá-Carpio, J., Grupp, F., Hoekstra, H., Hormuth, F., Israel, H., Jahnke, K., Kermiche, S., Kilbinger, M., Kirkpatrick, C. C., Kitching, T., Kohley, R., Kubik, B., Kunz, M., Kurki-Suonio, H., Laureijs, R., Ligori, S., Lilje, P. B., Lloro, I., Maiorano, E., Mansutti, O., Marggraf, O., Martinet, N., Marulli, F., Massey, R., Mauri, N., Medinaceli, E., Mei, S., Mellier, Y., Metcalf, R. B., Metge, J. J., Meylan, G., Moresco, M., Moscardini, L., Munari, E., Neissner, C., Niemi, S. M., Nutma, T., Padilla, C., Paltani, S., Pasian, F., Paykari, P., Percival, W. J., Pettorino, V., Polenta, G., Poncet, M., Pozzetti, L., Raison, F., Renzi, A., Rhodes, J., Rix, H.-W., Romelli, E., Roncarelli, M., Rossetti, E., Saglia, R., Sapone, D., Scaramella, R., Schneider, P., Scottez, V., Secroun, A., Serrano, S., Sirri, G., Stanco, L., Sureau, F., Tallada-Crespí, P., Tavagnacco, D., Taylor, A. N., Tenti, M., Tereno, I., Toledo-Moreo, R., Torradeflot, F., Valenziano, L., Vassallo, T., Wang, Y., Zacchei, A., Zamorani, G., Zoubian, J., & Zucca, E. **2019, Astronomy and Astrophysics, 631, A85.**

32. *The VIMOS Public Extragalactic Redshift Survey (VIPERS). Environment-size relation of massive passive galaxies at* $0.5 \leq z \leq 0.8$ Gargiulo, A., Cucciati, O., Garilli, B., Scodeggio, M., Bolzonella, M., Zamorani, G., De Lucia, G., Krywult, J., Guzzo, L., Granett, B. R., de la Torre, S., Abbas, U., Adami, C., Arnouts, S., Bottini, D., Cappi, A., Franzetti, P., Fritz, A., Haines, C., Hawken, A. J., Iovino, A., Le Brun, V., Le Fèvre, O., Maccagni, D., Małek, K., Marulli, F., Moutard, T., Polletta, M., Pollo, A., Tasca, L. A. M., Tojeiro, R., Vergani, D., Zanichelli, A., Bel, J., Branchini, E., **Coupon, J.**, Ilbert, O., Moscardini, L., & Peacock, J. A. **2019, Astronomy and Astrophysics, 631, A15.**

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111. *CFHTLenS: higher order galaxy-mass correlations probed by galaxy-galaxy-galaxy lensing* Simon, P., Erben, T., Schneider, P., Heymans, C., Hildebrandt, H., Hoekstra, H., Kitching, T. D., Mellier, Y., Miller, L., Van Waerbeke, L., Bonnett, C., **Coupon, J.**, Fu, L., Hudson, M. J., Kuijken, K., Rowe, B. T. P., Schrabback, T., Semboloni, E., & Velander, M. **2013, Monthly Notices of the Royal Astronomical Society, 430, 2476.**

112. *CFHTLenS: combined probe cosmological model comparison using 2D weak gravitational lensing* Kilbinger, M., Fu, L., Heymans, C., Simpson, F., Benjamin, J., Erben, T., Harnois-Déraps, J., Hoekstra, H., Hildebrandt, H., Kitching, T. D., Mellier, Y., Miller, L., Van Waerbeke, L., Benabed, K., Bonnett, C., **Coupon, J.**, Hudson, M. J., Kuijken, K., Rowe, B., Schrabback, T., Semboloni, E., Vafaei, S., & Velander, M. **2013, Monthly Notices of the Royal Astronomical Society, 430, 2200.**

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114. *CFHTLenS: testing the laws of gravity with tomographic weak lensing and redshift-space distortions* Simpson, F., Heymans, C., Parkinson, D., Blake, C., Kilbinger, M., Benjamin, J., Erben, T., Hildebrandt, H., Hoekstra, H., Kitching, T. D., Mellier, Y., Miller, L., Van Waerbeke, L., **Coupon, J.**, Fu, L., Harnois-Déraps, J., Hudson, M. J., Kuijken, K., Rowe, B., Schrabback, T., Semboloni, E., Vafaei, S., & Velander, M. **2013, Monthly Notices of the Royal Astronomical Society, 429, 2249.**

115. *The VIMOS Public Extragalactic Redshift Survey (VIPERS): spectral classification through principal component analysis* Marchetti, A., Granett, B. R., Guzzo, L., Fritz, A., Garilli, B., Scodeggio, M., Abbas, U., Adami, C., Arnouts, S., Bolzonella, M., Bottini, D., Cappi, A., **Coupon, J.**, Cucciati, O., De Lucia, G., de la Torre, S., Franzetti, P., Fumana, M., Ilbert, O., Iovino, A., Krywult, J., Le Brun, V., Le Fevre, O., Maccagni, D., Malek, K., Marulli, F., McCracken, H. J., Meneux, B., Paioro, L., Polletta, M., Pollo, A., Schlagenhaufer, H., Tasca, L., Tojeiro, R., Vergani, D., Zanichelli, A., Bel, J., Bersanelli, M., Blaizot, J., Branchini, E., Burden, A., Davidzon, I., Di Porto, C., Guennou, L., Marinoni, C., Mellier, Y., Moscardini, L., Nichol, R. C., Peacock, J. A., Percival, W. J., Phleps, S., Schimd, C., Wolk, M., & Zamorani, G. **2013, Monthly Notices of the Royal Astronomical Society, 428, 1424.**

116. *CFHTLenS: the Canada-France-Hawaii Telescope Lensing Survey* Heymans, C., Van Waerbeke, L., Miller, L., Erben, T., Hildebrandt, H., Hoekstra, H., Kitching, T. D., Mellier, Y.,

Simon, P., Bonnett, C., **Coupon, J.**, Fu, L., Harnois Déraps, J., Hudson, M. J., Kilbinger, M., Kuijken, K., Rowe, B., Schrabback, T., Semboloni, E., van Uitert, E., Vafaei, S., & Velander, M. **2012, Monthly Notices of the Royal Astronomical Society, 427, 146.**

117. *Constraints on massive neutrinos from the CFHTLS angular power spectrum* Xia, J.-Q., Granett, B. R., Viel, M., Bird, S., Guzzo, L., Haehnelt, M. G., **Coupon, J.**, McCracken, H. J., & Mellier, Y. **2012, Journal of Cosmology and Astroparticle Physics, 2012, 010.**

118. *Galaxy cluster searches based on photometric redshifts in the four CFHTLS Wide fields* Durret, F., Adami, C., Cappi, A., Maurogordato, S., Márquez, I., Ilbert, O., **Coupon, J.**, Arnouts, S., Benoist, C., Blaizot, J., Edorh, T. M., Garilli, B., Guennou, L., Le Brun, V., Le Fèvre, O., Mazure, A., McCracken, H. J., Mellier, Y., Mezrag, C., Slezak, E., Tresse, L., & Ulmer, M. P. **2011, Astronomy and Astrophysics, 535, A65.**

119. *Galaxy structure searches by photometric redshifts in the CFHTLS* Adami, C., Durret, F., Benoist, C., **Coupon, J.**, Mazure, A., Meneux, B., Ilbert, O., Blaizot, J., Arnouts, S., Cappi, A., Garilli, B., Guennou, L., Lebrun, V., Lefèvre, O., Maurogordato, S., McCracken, H. J., Mellier, Y., Slezak, E., Tresse, L., & Ulmer, M. P. **2010, Astronomy and Astrophysics, 509, A81.**

120. *Dark-energy constraints and correlations with systematics from CFHTLS weak lensing, SNLS supernovae Ia and WMAP5* Kilbinger, M., Benabed, K., Guy, J., Astier, P., Tereno, I., Fu, L., Wraith, D., **Coupon, J.**, Mellier, Y., Balland, C., Bouchet, F. R., Hamana, T., Hardin, D., McCracken, H. J., Pain, R., Regnault, N., Schultheis, M., & Yahagi, H. **2009, Astronomy and Astrophysics, 497, 677.**

121. *Very weak lensing in the CFHTLS wide: cosmology from cosmic shear in the linear regime* Fu, L., Semboloni, E., Hoekstra, H., Kilbinger, M., van Waerbeke, L., Tereno, I., Mellier, Y., Heymans, C., **Coupon, J.**, Benabed, K., Benjamin, J., Bertin, E., Doré, O., Hudson, M. J., Ilbert, O., Maoli, R., Marmo, C., McCracken, H. J., & Ménard, B. **2008, Astronomy and Astrophysics, 479, 9.**

2 Other publications

1. *The Euclid Data Processing Challenges*
Dubath, P.; Apostolakos, N.; Bonchi, A.; Belikov, A.; Brescia, M.; Cavuoti, S.; Capak, P.; **Coupon, J. 2017, IAUS, 325, 73D**

2. *Learn from every mistake! Hierarchical information combination in astronomy*
Süveges, M.; Fotopoulou, S.; **Coupon, J. 2017, IAUS, 325, 39S**

3. *swot: Super W Of Theta*
Coupon, J.; et al. **2017, ascl, soft, 07007C**

4. *Report on the Data Challenge 1 (DC2)*
Coupon, J.; et al. **2017, Euclid, internal**

5. *Overview of the data challenges*
Coupon, J.; et al. **2016, site web**

6. *A Study of the DES Photometry for Euclid Cosmology Requirements*
Capak, P. ; **Coupon, J.**; et al. **2016, Euclid, internal**

7. *Spectroscopic needs for imaging dark energy experiments*
Newman et al. **2015, APh, 63, 81N**

8. *Report on the Data Challenge 1 (DC1)*
Coupon, J.; et al. **2014, Euclid, internal**

9. *athena: Tree code for second-order correlation functions*
Kilbinger, M.; Bonnett, C.; **Coupon, J.**; **2014, ascl, soft, 02026K**

10. *VIPERS: An Unprecedented View of Galaxies and Large-scale Structure Halfway Back in the Life of the Universe*
Guzzo, L.; The Vipers Team **2013, Msngr, 151, 41G**

11. *The Importance of Mergers in Galaxy Evolution since $z \sim 1$ from HOD Statistics in the CFHTLS Wide*
Coupon, J. 2013, ASPC, 477, 167C

12. *CosmoPMC: Cosmology sampling with Population Monte Carlo*
Kilbinger, M.; Benabed, K., Cappé, O.; **Coupon, J.**; et al. **2012, ascl, soft, 12006K**

3 Seminars and presentations

3.1 Seminars

November 2017	Seminar. St Mary's University, Halifax, Canada. **(invited)**.
August 2017	Seminar. Nagoya University, Japan. **(invited)**.
July 2017	Seminar. NAOJ, Mitaka, Japan. **(invited)**.
February 2017	Seminar. LPSC, Clermont-Ferrand, France.
January 2017	Seminar. DPNC, University of Geneva. **(invited)**.
December 2016	Seminar. LPSC, Grenoble.
April 2016	Seminar. IPMU, Tokyo.
January 2016	Seminar. ASIAA, Taiwan.
April 2015	Seminar. IPMU, Tokyo.
April 2015	Seminar. Oxford University, UK. **(invited)**.
February 2015	Talk. Journal-club Galaxy, IAP, Paris. **(invited)**.
November 2014	Seminar. Geneva Observatory.
September 2014	Café club. LAM, Marcheille. **(invited)**.
June 2014	Seminar. CEA/Saclay, France.
April 2014	Seminar. ICE, Barcelona. **(invited)**.
January 2014	Seminar. Jao Tong University, China. **(invited)**.
June 2012	Seminar. ASIAA, Taiwan.
June 2012	Seminar. NTHU, Hsinchu, Taiwan. **(invited)**.
May 2012	CosmoBias, LAM, Marseilles, France. **(invited)**.
August 2011	Seminar. LBL, Berkeley. **(invited)**.
August 2011	Seminar. UBC, Vancouver.
July 2011	Seminar. IPMU, Tokyo.
July 2011	Seminar. Kyoto University.
March 2011	Seminar. OAMP, Marseilles.
May 2010	Seminar. Shanghai Observatory. **(invited)**.
April 2010	Seminar. Kyoto University.
February 2010	Revue. 2nd Int'l GCOE symposium. Tohoku University. **(invited)**.
June 2009	Seminar. Journal club galaxies, IAP, Paris.
June 2009	Seminar. Weak Lensing Seminar, IAP, Paris.

3.2 Presentations

November 2017	Euclid OU-PHZ meeting. Toulouse, Switzerland.
October 2017	XXL meeting. St Malo, France.
July 2017	COSMOS meeting. Kyoto, Japan.
June 2017	LSST workshop. Lyon, France.
May 2017	Photo-z workshop. Sendai, Japan.
May 2017	HSC collaboration meeting. Sendai, Japan.
May 2017	Euclid OU-PHZ meeting. Geneva, Switzerland.
February 2017	Swiss cosmology days. Basel, Switzerland.
June 2016	Euclid OU-PHZ meeting. Naples, Italy.
March 2016	SNOWPAC, Salt Lake City.
February 2016	ISDC science meeting. Geneva.
January 2016	HSC meeting. ASIAA, Taiwan.
December 2015	Euclid OU-MER meeting. Rome.
December 2015	Euclid OU-PHZ meeting. Geneva.
October 2015	ISDC science meeting. Geneva.
July 2015	HSC collaboration meeting. Princeton University.
	Euclid OU-PHZ meeting. Barcelona, Spain.
February 2015	Swiss cosmology days. University of Geneva.
February 2015	Euclid SRR review. ESTEC, the Netherlands.
December 2014	Euclid OU-PHZ meeting. APC, Paris.
October 2014	VIPERS meeting. Krakow, Poland (remotly).
September 2014	Euclid joint OU-PHZ/SHE meeting. Caltech, USA.
June 2014	Euclid OU-PHZ meeting. Geneva.
March 2014	ISDC science meeting. Geneva.
May 2014	Euclid meeting. Marseilles.
January 2014	HSC-AGN conference. ASIAA, Taiwan.
November 2013	Magnification bias workshop. Barcelona, Spain.
September 2013	Photo-z workshop. ASIAA, Taiwan.
May 2013	COSMOS conference (poster). Kyoto, Japan.
March 2013	PFS conference. Tokyo, Japan.
March 2013	HSC-Taiwan meeting. ASIAA, Taiwan.
December 2012	HSC-AGN conference. Matsuyama, Japan.
May 2012	CFHTLenS workshop, Barcelona, Spain.
October 2011	Galaxy Mergers in an Evolving Universe, Hualien, Taiwan.
September 2011	VIPERS meeting, Krakow, Poland.
March 2011	CFHTLenS group meeting. Bonn, Germany (Remotely).
	Hyper Suprime Cam meeting. ASIAA, Taiwan.
February 2011	Weak Lensing Workshop. Tohoku University, Sendai, Japan.
November 2010	CFHT users meeting. ASIAA, Taiwan.
July 2010	10 years of cosmic shear. Edinburgh.
March 2010	Hyper Suprime Cam meeting. Hirosaki, Japan.
May 2009	VIPERS meeting, IAP, Paris.
November 2008	CFHTLS shape measurement meeting, Leiden University, The Netherlands.
October 2008	VIMOS Public Extragalactic Redshift Survey (VIPERS) meeting, Cernobbio, Italy.
September 2008	Photometric redshift meeting, University College London.
February 2008	DUEL workshop, Leiden University, The Netherlands.
January 2008	Journée des thèses de l'IAP, Paris.
September 2007	Understanding the Dark Universe with Weak lensing and Photometric Redshifts, Vancouver, Canada.
January 2007	Journée des thèses de l'IAP, Paris.