

Jose Arrieta - CV

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Address: Ruhrthalstrasse 41, 40233 Dusseldorf, Germany

RESEARCH INTERESTS

Diversity; Strategic Decision Making; Organization Design; Theories of the Firm; AI

I study why goals are useful but not important for organizations. I use foundational machine learning, scheduling, and complexity theory models coupled with behavioral experiments to shine light on the limitations of thinking that goals matter in themselves and provide actionable feedback on what to do instead.

ARTICLES IN PEER REVIEW PROCESS & WORKING PAPERS

[1] Arrieta J.P., “More is different: The Effect of Preference Diversity on Exploration and Adaptation” – **Job market paper (rewriting)**

Nominated for Best PhD paper prize at Strategic Management Society (SMS) Virtual Conference 2020
Presented at invited seminars at Aarhus University and the University of Southern Denmark in 2019 and at the Theoretical Organizational Models (TOM) Society 2018, Carnegie School of Organizational Learning (CSOL), AoM, and SMS in 2020

[2] Arrieta, J.P., & Liu, C., “In Search of Contrarian Opportunities from the Blind Spot of Majority Rule” – (rewriting after R2 SMJ rejection in August)

Nominated for Best PhD Prize and Best Methods Prize at SMS Virtual 2020
Presented at TOM Society and Nagymaros Conference in 2020, AoM and DRUID in 2021

[3] Arrieta, J.P., & Crivelini-Eger, B., “Project Callisto: Adapting Decision Structures when the Victims Seldom Lie” – (finalizing draft for the Journal of Org. Design, Org. Zoo section)

RESEARCH IN PROGRESS

[4] Arrieta, J.P., Lauenstein, F., Analytis, P., Becker, M.C., & Liu, C., “Efficient but Fickle: A Behavioral Experiment on the Routinization Process of Centaur (AI + Human) Organizations”

Awarded Ernst&Young research grant at ESMT Berlin, Presented at SMS and RRC 2022

[5] Arrieta, J.P., “Routines as Games: On How Goal-disagreement Affects Routine Formation”

Presented at TOM Society 2020, CSOL, SMS 2021

[6] Arrieta, J.P., “Attention from the Bottom-Down: Insights from Single-celled Organisms on Self-Organization”

Presented at an invited seminar at Aarhus University and at CSOL in 2022

EDUCATION

- Ph. D.** Management Technology and Economics, **ETH Zürich**
Start: September 2015, Defense Date: January, 2021; Nominated for ETH Medal
- M. Sc.** Physics (with highest honors), **Universidad de Costa Rica**, October 2012
- B. Sc.** Electrical Engineering, **Universidad de Costa Rica**, July 2010
- B. Sc.** Physics, **Universidad de Costa Rica**, July 2010

PUBLICATIONS IN PEER-REVIEWED SCIENTIFIC JOURNALS

- 2023** Laureiro-Martinez D., Arrieta J.P., & Brusoni S. Microfoundations of Problem Solving: The Role of Attentional Engagement in Predicting Problem-Solving Strategies– *Organization Science*, forthcoming
- Arrieta, J.P., Fontana, R., & Brusoni, S., On the Strategic Use of Product Modularity for Market Entry, *Industrial and Corporate Change*, 32(1), 155-180
- 2022** Arrieta, J.P., & Shrestha, Y.R. (2022). On the Strategic Value of Equifinal Choice. *Journal of Organization Design*, 11, 37-45.
- 2016** Chang, J.B., Kim, Y.H., Thompson, E., No, Y.H., Kim, N.H., **Arrieta, J.P.**, Manfrinato, V.R., Keating, A.E., & Berggren, K.K. (2016). The Orientations of Large Aspect-Ratio Coiled-Coil Proteins Attached to Gold Nanostructures. *Small*, 12(11), 1498-1505.
- 2013** Manfrinato, V.R., Wanger, D.D., Strasfeld, D.B., Han, H.S., Marsili, F., **Arrieta, J.P.**, Mentzel, T.S., Bawendi, M.G., & Berggren, K.K. (2013). Controlled Placement of Colloidal Quantum Dots in sub-15 nm Clusters. *Nanotechnology*, 24(12), 125302.

EMPLOYMENT HISTORY

- May 2021 – now** **Assistant Professor**, University of Amsterdam, Amsterdam Business School, Strategy and International Business Section
- September 2015 – December 2020** **Doctoral Student**, Department of Management, Technology, and Economics, ETH Zürich, Switzerland, Under Prof. Stefano Brusoni and Dr. Daniella Laureiro-Martínez
- January – September 2015** **Research Assistant**, idem, Research areas: Formation of mental representations during crowdfunding evaluations
- Sept. 2013 – October 2014** **Doctoral Student**, Department of Physics, ETH Zürich, Switzerland, Under Prof. Klaus Ensslin and Prof. Thomas Ihn, Research areas: Undoped GaAs heterostructures, quantum transport; semiconductor physics
- January – August 2013** **Research + Innovation Intern**, Intel Corporation, Heredia, Costa Rica, Under Principal Engineer Eduardo Bolaños
Research areas: Cognitive science, hardware design and test
- 2012** **Research Fellow**, MicroStructures Research Center (CIEMIC), UCR, Under Prof. Henry Smith, EECS Department, MIT and Prof. Federico Muñoz-Rojas, UCR, Research areas: Grapho-epitaxy and transmission electron microscopy
- August – December 2011** **Visiting Scientist**, Quantum Nanostructures and Nanofabrication Group, EECS Department, Massachusetts Institute of Technology, Under Prof. Karl Berggren, Research areas: SEM resolution improvement; protein and quantum dot placement
- 2010 – 2011** **Research Fellow**, Electrochemistry and Chemical Energy Research Center (CELEQ), UCR, Under Prof. Leslie Pineda-Cedeño, UCR, Research areas: Dye-sensitized solar cells
- 2008 – 2010** **Research Assistant**, Materials Science and Engineering Research Center (CICIMA), Under Prof. Jose A. Araya-Pochet
Research areas: Tungsten thin-film (< 5nm) material properties

TEACHING ACTIVITIES

- 2022 – now** **Lecturer**, Economics for a Changing World I (PPLE 3801ECHWVY), Organizations and Markets (PPLE 3802OANMVY), Strategy and Change (B.Sc. 6013B0507Y), Strategy and Organizations (EPMS 612ZB011Y), Thesis Proposal (EPMS 6614Z-B004Y) above median student evaluation in all courses at UvA, except for ECWI which was a fully new course.
- 2016 – now** **Thesis Supervision**, over 25 M.Sc. and 5 B.Sc. students supervised
- 2016 – 2020** **Teaching Assistant**, Innovation Creativity, and Personality Traits, yearly course (MAS MTEC 365-1053-00L), at ETH Zurich

CONFERENCE ORGANIZATION

- June 2023** **Carnegie School of Organizational Learning Academy**, Co-organizer with Emanuel Ubert (RSM). An online summer school lectured every year by ten top-scholars in the field. Lecturers include multiple former and current journal editors, and we have had 150 participants between the 2022 and 2023 Academies For more information see: <http://www.csolconference.org/academy> and [.../academy-materials](http://www.csolconference.org/academy-materials)
- June 2022** **Computational Methods for Economists Summer School**, Co-organizer, 40 attendees. Held at the EPF Lausanne. Lectured by Prof. Stephen Hansen (Imperial), Prof. Molly Roberts (UC San Diego), Prof. Yaroslav Rosoka (Purdue), and Harsh Prasad (VP at Morgan Stanley)
- June 2019** **Strategy, Entrepreneurship, and Innovation Doctoral Consortium**, Assistance in the organization and administrative tasks
- October 2016** **Costa Rican Nanofabrication Workshop**, Lead organizer. Held at the UCR, 80 attendees, funded by the university and industry partners (Intel and HP). Lectured by Prof. Henry Smith (MIT), Dr. Charles Holzwarth (Research scientist, Intel), Samuel Nicaise (MIT), and myself
- January 2013** **Costa Rican Nanofabrication Workshop**, Lead organizer. Held at the UCR, 80 attendees, funded by the university and industry partners (Intel and HP). Lectured by Prof. Henry Smith (MIT), Dr. Charles Holzwarth (Research scientist, Intel), Samuel Nicaise (MIT), and myself

REVIEWING AND MEMBERSHIP IN SCIENTIFIC SOCIETIES

- Committee Member** SMS Diversity, Equity, and Inclusion (2022-2024)
- Ad Hoc Reviewer** Organization Science (since 2019), Industrial and Corporate Change (since 2021), Strategic Organization (since 2022)
- Membership** Organization Design Community, SMS, and AoM

AWARDS, RESEARCH FUNDING, AND FELLOWSHIPS

- 2020** **Ernst & Young Research Fund**, with Chengwei Liu, fellowship for running a behavioral experiment on routinization of centaur organizations (20 k€)
- 2013** **Costa Rican Ministry of Science and Technology**, Fellowship for the first year of doctoral studies in Physics at ETH Zürich (25 kCHF)
- 2012** **MicroStructures Research Center** (CIEMIC), UCR, One-year graduate studies research fellowship (6 k\$US) and research grant (6 k\$US)
- 2011** **Costa Rican Ministry of Science and Technology**, Fellowship for a five-month research visit at MIT (6 k\$US)
- 2011** **Electrochemistry and Chemical Energy Center** (CELEQ), UCR, One-year graduate studies research fellowship (6 k\$US)
- 2010** **Costa Rican National Congress on Innovation** (CRInnova 2010), Outstanding innovation award, National High-Technology Center, San José

PERSONAL SKILLS

Languages **English:** fluent TOEFL iBT: 114/120, **Portuguese:** fluent (C1-level),
German: upper intermediate (B2-level), **Spanish:** native

Programming Python, R, JavaScript, Mathematica, MatLab, C, Assembler, Verilog

PERSONAL INFORMATION

Personal Website www.arrieta.science

Google Scholar scholar.google.com/citations?user=sz4vuOkAAAAJ

Open Science F. osf.io/hjpqr

Github github.com/jparrieta

Zoom uva-live.zoom.us/my/arrietajp

Skype arrietajp

REFERENCES

Stefano Brusoni (co-advisor)

Email: sbrusoni@ethz.ch

Chaired Professor of Technology and Innovation Management
Department of Management, Technology, and Economics
and Pro-Rector for Continuing Education at
Swiss Federal Institute of Technology, Zürich

Daniella Laureiro-Martínez (co-advisor)

Email: dlaureiro@ethz.ch

Tenured Senior Researcher
Department of Management, Technology, and Economics
Swiss Federal Institute of Technology, Zürich

Chengwei Liu

Email: chengwei.liu@esmt.org

Associate Professor of Strategy and Behavioral Science
European School of Management and Technology, Berlin