

Ana Jofre

Based in Toronto, Canada; Eligible to work in the United States

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<http://onewomancaravan.net>

EDUCATION

- 2015 MFA (Interdisciplinary Arts, Media, and Design) OCAD University, Toronto, Ontario, Canada
- 2013 BFA Studio Art concentrated in Ceramics (Sculpture), Minor in Art History, UNC Charlotte, Charlotte NC, USA
- 2004 PhD Atomic Molecular and Optical Physics, University of Toronto, Toronto, Ontario, Canada.
- 1999 MSc. Atmospheric Physics, University of Toronto, Toronto, Ontario, Canada.
- 1997 BSc. (Hons) Physics, University of Manitoba, Winnipeg, Manitoba, Canada.

PROFESSIONAL EXPERIENCE

- 2017-current Assistant Professor of Creative Arts and Technology (SUNY Polytechnic, Utica, New York, USA)
- 2015-2017 Post-Doctoral Research Fellow (Visual Analytics Lab, OCAD University, Toronto, Canada)
- 2016 Selected participant for *Culture Analytics* Program (March 7 – June 10, Institute for Pure & Applied Mathematics (IPAM), University of California, Los Angeles (UCLA), Los Angeles, California, USA)
- 2013 - 2015 Research Assistant (Visual Analytics Lab, OCAD University, Toronto, Ontario, Canada)
- 2007 - 2013 Assistant Professor (University of North Carolina Charlotte, Department of Physics & Optical Science. Charlotte, North Carolina, USA)
- 2004 - 2007 Post-Doctoral Research Fellow (National Institute of Standards and Technology (NIST) Gaithersburg, Maryland, USA)

Teaching Experience

- 2016 fall Instructor, VISM3002 (Visual Analytics and Data Visualization), OCAD University, Toronto
- 2015-current Continuing Studies Instructor, CSDI1N15 (Introduction to Visual Analytics), OCAD University, Toronto
- summer 2015 Continuing Studies Instructor, CSDM1N28 (Gizmology: Introduction to Electronics with Arduino), OCAD University, Toronto
- 2010 - 2013 Instructor, LBST2213 (Science, Technology, and Society, a Liberal Arts course), University of North Carolina at Charlotte
- 2011 - 2013 Instructor, PHYS1101, PHYS2101, PHYS1102 (Physics 1, Physics 1 for Engineers, Physics 2), University of North Carolina at Charlotte
- 2007 - 2011 Instructor, PHYS3141 (Introduction to Modern Physics), University of North Carolina at Charlotte
- 2008 - 2009 Instructor, PHYS6010 (Biophysics), University of North Carolina at Charlotte
- 1999 - 2004 Teaching Assistant, Department of Physics, University of Toronto

EXHIBITIONS

Solo Exhibitions

- 2015 Cyborg & Monster (Fine and Dandy Gallery, 2017 Dundas St. W, Toronto, Ontario, Canada)
2015 Anthropomorphic Objects MFA Thesis Exhibition (230 Richmond St. W, Toronto, Ontario, Canada)

Commissioned works

- 2017 'An Edshibition' with the Honest6ix collective, commissioned for An Honest Farewell, aMAZEment: Immersive art maze by Toronto For Everyone (<http://torontoforeveryone.com>) Feb 23 - Feb 26 Honest Ed's, Toronto, Canada

Juried Exhibitions

- 2016 #trending: mobilizing art and culture 2016 CADN conference OCADU March 12, 2016, Toronto, Ontario, Canada. (Art installation: "The Rabbit Hole")
2015 FIGMENT Toronto 2015 (Olympic Island, Toronto, Ontario) July 25 - July 26, 2015
2014 The Body Electric – Digital art show at International Conference on Residency Education (ICRE) Toronto, Ontario, Canada
2014 FIGMENT Toronto 2014 (Olympic Island, Toronto, Ontario) July 25-26, 2014
2014 Far Out (Dorothy H Hoover Library, OCAD University, 113 McCaul St. Toronto, Ontario, Canada)
2014 Come Up To My Room 2014 (The Gladstone Hotel, 1214 Queen Street West, Toronto, Canada)
2013 Strange Figurations (Limner Gallery, 123 Warren Street, Hudson, New York, USA)
2013 September featured artist (Caldwell Arts Council Gallery, 601 College Ave SW, Lenoir, NC, USA)
2013 August featured artist (Visual Art Exchange, 309 W. Martin Street, Raleigh, NC, USA)
2013 Carolina's Got Art Salon Show, (Elder Gallery, 1520 S. Tryon St., Charlotte, NC, USA)
2013 UNC Charlotte Juried Student Exhibition (Rowe Arts Gallery, UNC Charlotte, Charlotte NC, USA)
2013 The Schwa Show (Pitt County Arts Council at Emerge, Greenville NC, USA)
2012 Separation of Church and State (Democratic National Convention, Packard Place 222 S. Church Street, Charlotte, NC, USA)
2012 The Arts & Culture Alliance of Greater Knoxville National Juried Exhibition (Knoxville, TN, USA)
2011 Figuratively Speaking (Rowe Arts Gallery, UNC Charlotte, Charlotte NC, USA)
2011 Natural Elements, Painting and Ceramics Exhibition (Mendenhall gallery, School of Art and Design, East Carolina University. Greenville NC, USA)
2010 Urban Stratum (Area 15 Gallery, 514 E. 15th Street, Charlotte NC, USA)
2009 Foundations Student Show, 'Best in Show' (Rowe Arts Gallery, UNC Charlotte, Charlotte NC)

CURATING

- 2015 "Experiencing the Catholic Faith" University of the Basque Country, Spain, an art exhibition associated with the symposium "Catholicism and Education: Fifty Years After Vatican II (1962-1965): A Transnational Interdisciplinary Encounter", funded by SSHRC (Social Science and Humanities Research Council of Canada) Connection Grant 2015. Exhibition Catalogue to be viewed here: <http://onewomancaravan.net/ConnectionExhibitionCatalog.html>

RECENT AND SELECTED PUBLICATIONS

Art, Design, and Data visualization

- 2016 "Materializing data: notes on collaboration and tangible interfaces with excerpts and additions" Jofre, A., Szigeti, S., Diamond, S. *DAT Journal Design Art and Technology* vol.1 no.2 (2016) "Transdisciplinarity: Projects, Materials and Processes"
- 2016 "Manipulating Tabletop Objects to Interactively Query a Database" Jofre, A., Szigeti, S., Tiefenbach-Keller, S., Dong, L.-X., Diamond, S. (2016) CHI'16 Extended Abstracts (Chi 2016 San Jose May 7-12) In press.
- 2016 "Citizen engagement through tangible data representation" Jofre, A., Szigeti, S., Diamond, S. *Foro de Educación* (January-June 2016) vol. 14, n. 20
- 2015 "A Tangible User Interface for Interactive Data Visualization" Jofre, A., Szigeti, S., Tiefenbach-Keller, S., Dong, L.-X., Tomé, F., Czarnowski, D., Diamond, S. (2015) Proceedings of the 2015 Conference of the Center for Advanced Studies on Collaborative Research. IBM Corp., CASCON2015, November 2-4, 2015, Toronto, Ontario.
- 2015 "Topicks: Visualizing Complex Topic Models for User Comprehension." Peters, J., Szigeti, S., Jofre, A., Diamond, S. (2015). IEEE Vis 2015 (VAST), October 25-30, 2015, Chicago, IL
- 2015 "Anthropomorphic Things: Blurring the boundary between Subject and Object" Ana Jofre. Proceedings of ISEA 2015, Vancouver, August 14-18, 2015.
- 2015 "Postcard Memories: an interactive tablet application for elders with dementia" Martha Ladly, Frank Rudzicz, Bryn Ludlow, Ana Jofre, Laura Wright. Proceedings of ISEA 2015, Vancouver, August 14-18, 2015.
- 2014 "Output to input: concepts for physical data representations and tactile user interfaces." Szigeti, Steve James, Anne Stevens, Robert Tu, Ana Jofre, Alex Gebhardt, Fanny Chevalier, Jonathan Lee, and Sara L. Diamond. In CHI'14 Extended Abstracts on Human Factors in Computing Systems, pp. 1813-1818. ACM, 2014.

Teaching and Learning

- 2015 "Constructivist Pedagogy At Work In A Realist Classroom: A Case Study Exploring College Students' Attitudes toward Science." Ana Jofre and Stephanie Marie Mari. *Teoría De La Educación: Educación Y Cultura En La Sociedad De La Información*. (2015) Vol. 15, pg 34
- 2012 "Are we Educating or Training?" Ana Jofre. *Encounters/Encuentros/Rencontres on Education: Journal of the Theory and History of Education International Research Group, Queen's University, Fall 2012 Vol. 13 pg 143-14*
- 2007 Review of: Ashwin, Paul (ed.) (2006.) *Changing higher education: The development of learning and teaching*. London & New York: Routledge. Pages: xvi, 152. *Canadian Journal of Higher Education*, Vol. XXXVII, 3 (2007): 127-128.
- 2004 Review of: Sandra Ingram & Anne Parker *Gender and Collaboration: Communication Styles in the Engineering Classroom*. Halifax: Fernwood Publishing, 2002. 125 pages. *Canadian Journal of Higher Education*, Vol. XXXIV, No. 2 (2004).
- 2002 Review of: Mary-Ann Winkelmes & James Wilkinson (ed.) *Voices of Experience*. New York: Peter Lang, 2001. 131 pages. *Canadian Journal of Higher Education*, XXXII, 3 (2002): 119-122.
- 2000 Review of: Ana Pastor & Slater, J. *Acts of alignment of women in math and science and all of us who search for balance*. New York: Peter Lang, 2000. 395 pages. *Canadian Journal of Higher Education*, Vol. XXXI, 3 (2001): 166-170.

Cultural Studies and History

2015 "Reading the Lived Experience of Vatican II: Words and Images, The Canadian Province of the Sisters of Our Lady of Missions in Peru, Historical Studies", Rosa Bruno-Jofre, and Ana Jofre. (fall 2015) *Historical Studies, Journal of the Canadian Catholic Historical Association*, vol 81, pg 31-52.

Physics

2017 "Afterword: Einstein in a Lift" Ana Jofre. *Thought X: Fictions and Hypotheticals* Edited by Rob Appleby & Ra Page. Great Britain: Comma Press, 2017. Pages 205-210

2013 "Tuning the optical forces on-and off-resonance in microspherical photonics." Li, Yangcheng, Alexey V. Maslov, Ana Jofre, and Vasily N. Astratov. (2013) *Transparent Optical Networks (ICTON)*, 2013 15th International Conference, pp. 1-4. IEEE.

2010 "Conformational Diversity of Short DNA Duplex" S. Hicks, J. Case, A. Jofre. (2010) *Journal of Physical Chemistry B.*, 114, pg 15134

2010 "Droplet Confinement and Fluorescence Measurement of Single Molecules" Lori S. Goldner, Ana Jofre, Jianyong Tang. (2010) *Methods in Ezymology*, 472, pg 61

2009 "Generation and Mixing of Subfemtoliter Aqueous Droplets On Demand." Jianyong Tang, Ana M. Jofre, Rani B. Kishore, Joseph E. Reiner, Mark E. Greene, Geoffrey M. Lowman, John S. Denker, Christina C. C. Willis, Kristian Helmerson and Lori S. Goldner. (2009) *Analytical Chemistry*, 81 (19), pp 8041–8047

2008 "Green Fluorescent Protein in Optically Trapped Aqueous Nanodroplets" J. Tang, A. Jofre, G.M. Lowman, R. Kishore, J.E. Reiner, K. Helmerson, L.S. Goldner, M.E. Greene. *Langmuir*. 24, pg 4975 (2008)

2007 "Formation, stabilization, and application of amphiphilic block copolymer nanotubes." A.M. Jofre, J.B. Hutchison, R. Kishore, K. Helmerson, L. Locassio. (2007) *Journal of Physical Chemistry B* Vol. 111, No. 19, 5162-5166

2005 "Classical and quantum analysis of one-dimensional velocity selection for ultra-cold atoms." J K Fox, H A Kim, S R Mishra, S H Myrskog, A. M. Jofre, L R Segal, J.B. Kim and A M Steinberg. (2005) *J. Opt. B: Quantum Semiclass. Opt.* Vol. 7, No. 9, 240-245.

RECENT AND SELECTED CONFERENCE PRESENTATIONS

2016 "Browsing and Analyzing Time Magazine: Open Access Data in the 21st Century" Jofre, A, K. Brennan, V. Berardi (2016) Culture Analytics Workshop (SocInfo 2016 Seattle Nov. 14-17)

2016 "Manipulating Tabletop Objects to Interactively Query a Database" Jofre, A., Szigeti, S., Tiefenbach-Keller, S., Dong, L.-X., Diamond, S. (2016) CHI'16 Interactivity Research Demonstration (Chi 2016 San Jose May 7-12)

2016 "Women religious teachers: facing the world on new terms during the long 1960s (1958-1974) into the 1980s" Rosa Bruno-Jofre and Ana Jofre. (2016) 38th annual meeting of the International Standing Conference for the History of Education (ISCHE) Chicago August 17-20, 2016.

2015 "A Tangible User Interface for Interactive Data Visualization" Jofre, A. Szigeti, S., Tiefenbach-Keller, S., Dong, L.-X., Tomé, F., Czarnowski, D., Diamond, S. (2015) Emerging Technology Track, CASCON2015, November 2-4, 2015, Toronto, Ontario.

2015 "Anthropomorphic Things: Blurring the boundary between Subject and Object" Ana Jofre ISEA 2015, Vancouver, August 14-18, 2015. Poster presentation and Artist Talk

2015 "Postcard Memories: an interactive tablet application for elders with dementia" Martha Ladly, Frank Rudzicz, Bryn Ludlow, Ana Jofre, Laura Wright. Proceedings of ISEA 2015, Vancouver, August 14-18, 2015, Demonstration

2015 "Interpretando la Experiencia Vivida del Concilio Vaticano II: La Provincia Canadiense de Las Sisters of Our Lady of Missions in Peru (1965-1980)," (with Rosa Bruno-Jofré) Primer seminario, Educación e

Iglesia Católica: Transiciones en el Siglo de Encuentros Interdisciplinarios de Investigación, Universidad de Deusto, Bilbao, Spain, 28 May 2015. Invited.

- 2014 "Imagining CBC Newsworld" Martha Ladly (Ana Jofre on team of research assistants) ISEA 2014, Dubai, November 2-8, 2014.
- 2014 "Reading the Lived Experience of Vatican II: Threading Words and Images, Contrasting with the Past and Grasping the Spirit of the Times: The Oblate Sisters and the Sisters of Our Lady of Missions in Canada" (with Rosa Bruno-Jofré). Presented at The Lived History of Vatican II Conference, CUSHWA, University of Notre Dame, April 24-26, 2014; modified version presented at the International Colloquium, Male and Female Religious and Vatican II, Rome, 12-14 November 2014. Organized by LARHRA, Université de Lyon, FR; CERCOR-EPHE, FR; KADOC-KU Leuven, Belgium, Centro Studie Recherche sul Concilio Vaticano II (Pontifical Lateran University), Italy; with the support from The "École française de Rome, The Belgian Historical Institute in Rome, The Academia Belgica, Rome.
- 2014 "Output to Input: Concepts for Physical Data Representations and Tactile User Interfaces" Steve J Szigeti, Anne Stevens, Robert Tu, Ana Jofre, Jonathan Lee, Alex Gebhardt, Fanny Chevalier, Sara Diamond. Presented at CHI 2014, Toronto, Canada, April 26-May1, 2014
- 2014 "Hans Bellmer's Dolls: Bodies Without Organs" Ana Jofre. Presented at "Under My Skin: The Politics Of Flesh" Carleton University & University of Ottawa Graduate Colloquium. April 5-6, 2014.
- 2009 "Hydrosomes: Femtoliter containers for Single Molecule Observations" Ana Jofre. Invited talk. Frontiers in Optics (FiO), October 11-15 2009 in San Jose California
- 2009 "Hydrosomes: Femtoliter containers for Single Molecule Observations" Ana Jofre. Invited talk. Spring Optics and Photonics Congress (OPC) 2009, of the Optical Society of America (OSA), April 25-30, 2009 in Vancouver, Canada

GRANTS

- 2015 Participant: SSHRC Connection Grant, file 611-1014-0050, Catholicism and education: Fifty years after Vatican II, 1962-1965 – a transnational disciplinary encounter. Theory and History of Education International Research Group, Queen's University, Canada and GARAIN Group, Universidad del País Vasco. Role: Curator, exhibition of Spanish Artists, Experiencing the Catholic Faith, Carlos Santa María Center, Universidad del País Vasco, San Sebastian, Spain. June 2015.
- 2008 Ralph E. Powe Junior Faculty Enhancement Award from ORAU (Oak Ridge Associated Universities)

ARTWORK APPEARING IN PUBLICATIONS

- 2014 *Teacher Education in the Transnational Word* (Toronto: University of Toronto Press, 2014), front cover
- 2013 *Sanskrit Literary-Arts Magazine*, UNC Charlotte Student Niner Media, Vol. 44 (2013)
- 2012 *Education Letters*, Queen's University Faculty of Education, Fall/Winter 2012, pages 1 and 3.
- 2012 *The Global Reception of John Dewey's Thought: Multiple Refractions Through Time and Space*. Routledge: New York, p. 272 (2012) Frontispiece.
- 2010 *Encounters on Education*, Queen's University Faculty of Education, Volume 11 (fall 2010), guest-edited by Larry O'Farrell, Canada Unesco Chair for the Arts, front cover.
- 2010 Democracy and the intersection of religion and traditions: the reading of John Dewey's understanding of democracy and education. McGill-Queen's University Press, Montreal ; Ithaca, p.176 (2010), front cover.
- 2009 *Education Letters*, Queen's University Faculty of Education, Winter 2009 issue, pages 10 & 11.