

M a r t i n R a c i n e

Martin Racine is Associate Professor and the former Chair of the Department of Design and Computation Arts at Concordia University, Montréal. His research interests include Sustainable Design Strategies and Design History and Theory.

Education	Doctor of Philosophy - Ph.D. 2002-2008 <i>Specialization: Design History and Theory Faculté de l'aménagement, Université de Montréal</i>
	Master's Degree in Communication Sciences 1993-1995 <i>Specialization: Semiotics and Cognitive Sciences Université de Montréal</i>
	International Exchange Program 1987-1988 <i>École Nationale Supérieure de Création Industrielle Paris, France</i>
	Bachelor's Degree in Industrial Design 1986-1990 <i>Specialization: Ecological Design Université de Montréal</i>

Experience at Concordia University	Chair, Department of Design and Computation Arts 2007-2010
	Graduate Program Director 2004-2005 Graduate Certificate, Digital Technologies in Design Art Practice
	Associate Professor, Fulltime Faculty since 2003
	Assistant Professor, Fulltime Faculty 1999-2003

Part-time Faculty	École de design industriel 1993-1999 <i>Université de Montréal</i>
	Département des matières plastiques 1993-1999 <i>Collège Ahuntsic, Montréal</i>
	Département de design industriel 1992-1993 <i>Collège de Ste-Foy, Québec City</i>

Grants FQRSC

Racine, Martin (2013-2016) ***DNA, The future Life of Objects*** / \$ 123 414
Research Creation Grant focusing on Innovative Sustainable Design Strategies
The DNA project questions the paradigm of design and seeks to redefine the principles of the conception, production and consumption of sustainable objects. This ultimate goal of this research is to reduce the environmental impact of consumer goods on the environment.

Grants Hexagram

Racine, Martin & Lalande, Philippe (2007-2009) / \$61 640
"Metacycling, Crowdsourcing for product longevity".
Web site: www.metacycle.ca/home/

Racine, Martin & Lalande, Philippe (2004-2006) / \$59 100
"Rapid Prototyping as a Creative Tool for Object Metamorphose".
Web site: www.meta-morphose.ca

Racine, Martin & Lalande, Philippe (2002-2004) / \$41 075
"PReco-Rapid Prototyping A New Approach Towards Ecodesign".
Web site: www.preco.ca

Grants CFI/VRQ

Martin Racine has founded, in collaboration with Professor Philippe Lalande (Université de Montréal), the Hexagram Institute's Rapid Prototyping Labs at Concordia University and at the "Université de Montréal". The labs are equipped with the latest technologies in Rapid Prototyping equipment, 3D Scanners and 3D Modeling softwares. **This represents an investment of \$400 000 from the Canadian Fund for Innovation and Valorisation Recherche Québec.** Principal Investigator for CFI and VRQ: Barbara Layne.

Travel Grants

Martin Racine received a number of grants from the **CIAM** and **SSHRC** to present refereed papers at international conferences, including Istanbul (Turkey), Stockholm (Sweden), London (England), Paris (France), Guadalajara (Mexico), Honolulu, New York (USA), Gothenburg (Sweden), Kyoto (Japan), Torino (Italy), Valencia (Spain), Hong Kong (China), Prague (Czech Republic), Banff, Toronto, Tokyo (Japan),

Other Grants

Concordia Aid to Scholarly Activity (CASA), 2010
Project: **Photo Documentation of Julien Hébert's projects.**

Grant from the Institute for Research on the History of Architecture, Canadian Centre for Architecture, 2002.
Research: ***"Julien Hébert, a Pioneer of Design in Canada"***

Faculty Research Development Program, Concordia University, 2000-2001.
Project: ***"Integrating new Technologies in the Design Process"***.

*Bourse d'excellence de la Faculté des Études Supérieures", 1998-1999.
Research: "Julien Hébert et l'émergence du design au Canada"*

*Bourse spéciale de la Faculté des Études Supérieures", 1993-1995.
Research: L'analyse sémio-cognitive du design.*

Papers on Design for Sustainability

Racine, M. (2013), "***Applying the Metacycle Principle as a Strategy for Sustainable Design Education***". Paper presented at the 5th Conference of International Association of Societies of Design Research (IASDR) Tokyo, Japan, August 2013.

Racine, M. (2012), "***A Creative Strategy for Sustainable Design Education***". Paper presented at the International Conference on New Horizons in Education, Prague, Czech Republic, June 2012.

Racine, M. and Lalande, P. (2010) "***Metacycling, An International Collaborative Project promoting Sustainable Design***". Paper presented at the International Technology, Education and Development Conference, Valencia, (Spain), March 2010.

Racine, M. and Lalande, P. (2010) "***Metacyling and Rapid Prototyping***". Paper presented at the Digital Futures Initiative, Ontario College of Art and Design (OCAD), Toronto, January 2010.

Cucuzzella, C., Colby, C., Lalande, P., Racine, M. (2010) "***Rethinking Material Flows: Assessing a New Business Model for Material Repurposing***". Paper presented at the Society and Materials Conference, Nancy (France), April 2010.

Racine, M. and Lalande, P. (2008) "***Extending Products' Lifespans using Virtual Communities and Rapid Prototyping***", Paper presented at the Design visions International Conference, Torino (Italy), July 2008.

Racine, M. and Lalande, P. (2008) "***Metacycling. Crowdsourcing for Product Longevity***", Paper presented at the "Cumulus International Conference", Kyoto (Japan), March 2008.

Racine, M. and Lalande, P. (2006) "***The Metamorphosis of Products, a Sustainable Design Strategy that Favors Increased Attachment***", Paper presented at the "Fifth International Conference on Design and Emotion", Gothenburg (Sweden) September 2006.

Racine, M. and Lalande, P. (2005) "***The potential of Rapid Prototyping for Sustainable Design***", Paper presented at the Société des arts technologiques, Montréal, September 2005.

Racine, M. and Lalande, P. (2003) "***Rapid Prototyping A New Approach Towards Ecodesign***", Presented at the International Conference on Sustainable Innovation, Stockholm (Sweden), November 2003.

* ***Voted Best Research Project of the Conference.***

Racine, M. (2002), "***Integrating New Technologies in the Design Process, a Tool for Sustainability***". Presented at the "Towards Sustainable Product Design" Conference, London (England), October 2002.

Racine, M. (2001), "***L'intégration du prototypage rapide comme outil pour prolonger la vie utile des objets***". Presented at the "Assises du prototypage rapide", Paris (France), June 2001.

**Publications on
Design History
Books, Articles**

Racine, M. (2013) "***Julien Hébert (1917-1994) une vision pour le design moderne au Québec.*** Book under review by publisher.

Racine, M. (2014) "***When Modernity Confronts Tradition: Tensions in Design Education in Québec from 1945 to 1970***". Chapter of the book "*The Politics of Furniture: Identity, Diplomacy and Persuasion in Post-War Interiors*", Ashgate – to be published in 2015.

Racine, M. (2010) "***De Borduas à Gauvreau, la modernité ambiguë du designer Julien Hébert***", Chapter of the book "*Expo'67: Not Just a Souvenir*", Toronto University Press.

Racine, M. (2006) "***Le design au Québec***", in the Journal of Material Culture, Spring 2006.

Racine, M., Findeli, A. (2003) "***Julien Hébert and the Emergence of Design in Canada***", Design Issues Journal, MIT Press, Autumn 2003.

**Papers on
Design History**

Racine, M. (2013) "***Gauvreau, Borduas et Hébert, les tensions entre les arts décoratifs, les arts visuels et le design moderne au Québec***". Presented at the Universities Art Association of Canada, Banff, Canada, October 2013.

Racine, M. (2007) "**Julien Hébert (1917-1994), a Humanist Pedagogue**". Presented at the 5th Annual International Conference on Arts and Humanities, Hawaii, January 2007.

Racine, M. (2007) "**The Role of Julien Hébert (1917-1994) at Expo'67**". Presented at the 4th International Conference on Design History and Design Studies, Guadalajara (Mexico), November 2007.

Racine, M. (2005) "**Julien Hébert, designer montréalais des années 60**". Presented at the Colloquium "Montréal at Street Level", Canadian Centre for Architecture, Montréal, April 2005.

Racine, M. (2002) "**The Influence of Julien Hébert (1917-1994) on the Emergence of Design in Québec and Canada**". Presented at the 3rd International Conference on Design History and Design Studies, Istanbul (Turkey), July 2002.

Papers on Design Epistemology

Racine, M. (2011) Design Ethics and Epistemology, Insights Towards a Common Ground for Doctoral Education. Paper presented at the International Conference on Doctoral Education in Design, Hong Kong (China), May 2011.

Frankel, L., Racine, M. (2010) **The Complex Field of Research: for Design, through Design & about Design.** Paper presented at the International Conference of the Design Research Society, Montréal, July 2010.

Sabbatical Research

Winter 2010

During his sabbatical leave in Winter 2010, **Martin Racine has been a guest researcher at the Elisava Design School in Barcelona and at the Instituto Europeo di design in Madrid.** He has since then initiated a comparative study of the emergence of design in Catalonia and in Québec (research in progress).

Winter 2014

Research work on Service Design at the **Royal College of Art** (London), in collaboration with Professor Nick de Leon (Head of Programme), visit of the **Rietveld Academy** (Amsterdam) and participation in the Milan Design Week

Invited Speaker

Keynote Speaker to present research activities at the Via Festival, Hexa-Out Conference Series, Gare numérique de Jeumont, France, March 2014.

"The Research Initiatives in the field of New Media in Montréal", presented at the European Forum of Exchange, University of Applied Science, Trier, Germany, April 2009.

"The Hexagram Experience of Building an Inter-University Network", presented at "The Future of Design Research in Canada", Vancouver, January 2008.

"La conservation du patrimoine moderne", Master's Degree Seminar, UQAM, February 2007 and April 2007.

"Design et Complexité", Master's Degree Seminar, Université de Montréal, May 2006.

"The Ready Made Re-made: Rapid Prototyping and the Ecological Object", Contemporary Ideas on the Object in the Culture, Concordia University, November 2005.

"Semiotics and Visual Communication", École de design industriel, Université de Montréal, November 2005.

"Semiotics as a Design Tool" École de design industriel, Université de Montréal, March 2004.

"Julien Hébert et la modernité ambiguë", Canadian Centre for Architecture, November 2002.

"Emerging Trends in Professional Practice of Design", North American ICSID Conference, Panel Discussion, June 2001.

"Le design des produits en bois", Association des fabricants de meubles du Québec, Participant, May 2001.

Television Interviews

Martin Racine's research has been featured extensively in the media, including television, radio and newspapers:

L'émergence des Fab Labs en France, interview on FR3 (France National Television), Via Festival, Jeumont, March 2014

Les artisans du rebut global, Télé-Québec, episode 12, 2006
http://www.citadins.tv/cgi-bin/index.cgi?page=crg3_2_5_11

Carnet techno, Canal Z (2006)

The Daily Planet, Discovery Channel (2003)

Radio interview

Interview on Radio-Canada

Le prototypage rapide : donner une deuxième vie à nos objets

lundi 21 mars 2011

http://www.radio-canada.ca/emissions/lapres-midi_porte_conseil/2010-2011/chronique.asp?idChronique=142344

Radio Series

*In Winter 2012, as a guest expert in the fields of design and new technologies, Martin Racine presented a four-part series on the radio program “L’après-midi porte conseil” broadcasted on **Radio-Canada**:*

1) La révolution 3D, du virtuel au réel

mardi 17 janvier 2012.

http://www.radio-canada.ca/emissions/lapres-midi_porte_conseil/2011-2012/chronique.asp?idChronique=196276

2) La numérisation tridimensionnelle

mardi 24 janvier 2012

http://www.radio-canada.ca/emissions/lapres-midi_porte_conseil/2011-2012/chronique.asp?idChronique=197659

3) La dimension haptique : pouvoir toucher à distance,

mardi 7 février 2012

http://www.radio-canada.ca/emissions/lapres-midi_porte_conseil/2011-2012/chronique.asp?idChronique=200372

4) Interagir avec les objets qui nous entourent,

mardi 14 février 2012

http://www.radio-canada.ca/emissions/lapres-midi_porte_conseil/2011-2012/chronique.asp?idChronique=201814

Printed Articles

on Racine’s work

Québec Science

“Le boom 3D, Le future fait bonne impression”, March 21 2014

http://www.velo.qc.ca/fr/salledesepresse/Quebec_science_mars2014

Québec Science

50 Défis pour 2050, October 2012

<http://www.quebecscience.qc.ca/50defis>

Journal Le Devoir:

Les entretiens Concordia - Économie et développement durable

La mission de Martin Racine: trouver des solutions à la

consommation outrancière, par Claude Turcotte, 31 janvier 2011

<http://www.ledevoir.com/economie/actualites-economiques/315758/les-entretiens-concordia-economie-et-developpement-durable-l-homme-objets>

The Globe and Mail:

3D printers are adding a whole new dimension to design,

by Grant Buckler, Aug. 23 2012

<http://m.theglobeandmail.com/news/national/education/campus-reports/3d-printers-are-adding-adding-a-whole-new-dimension-to-design/article1494470/?service=mobile>

The Globe and Mail:

A Four-part series on Sustainability – Communities, Technologies, Populations, Business - February 9, 2009.

<http://v1.theglobeandmail.com/partners/free/sr/sustainability/sustainability.pdf>

Other articles presenting my work were published in **La Presse, le Journal Voir, le Journal Métro, le journal Ici.**

Distinction and Awards

Racine's research has been featured in Québec Science Magazine's 50th anniversary issue, and selected as being part of the 50 most important challenges for 2050 (October 2012)

Award for Best Research Project at the International Conference on Sustainable Innovations for the project "*Rapid Prototyping A New Approach Towards Ecodesign*", Stockholm (Sweden), November 2003.
<http://news.concordia.ca/faculties/001376.shtml>

Named **Sustainability Champion**, Sustainable Concordia (2011)
<http://www.concordia.ca/now/campus-beat/going-green/20110321/we-are-the-champions.php>

Exhibitions

Two lamps designed by Racine's research team have been selected to be part of the **international touring exhibition entitled "Au-delà de l'image"**, curated by the Musée de la nature et des sciences, in partnership with the Université de Sherbrooke 2007-2010. The expo is now shown in Europe.

http://www.usherbrooke.ca/udes/journal/affiche/2008-2009-vol-2/no1/actualite/index.html@tx_igttnewsshared%5Btt_news%5D=926.html

Participation in the exhibition "**Le design au Québec**", presented at the Biennale du design in St-Étienne (France) and Montréal (2006-2007)

Research Web Sites

www.preco.ca
www.meta-morphose.ca
www.metacycle.ca
www.metadna.wordpress.com

Teaching**DART 504 Contextualizing Design Practice** (2004-2007, 2012-14)

This course approaches design and digital technologies through interdisciplinary theoretical engagement to investigate the cultural and discursive context in which design resides. Through a combination of seminar discussions, workshops, and individual writings, students situate their work in different environments, such as commercial, public or domestic contexts, and explore new venues of dissemination.

D/CART 498. Design for the Year-End Show (2011-2013)

This studio addresses the fundamental aspects related to exhibition design and focuses on the organization of special events. After an overview of the different categories of expositions and of their historical origins, from international expositions and world fairs to museums, trade shows, interactive and in-situ events, students are called to organize and design the Year End Show of the programs of the Department of Design and Computation Arts.

Dart 448 - Ecology and 3D Design (2002 to 2011)

This design studio course is oriented towards sustainable design and environmental issues. Strategies including design for disassembly, recuperation, recycling and lifecycle analysis are used to develop objects that conform with principles of design responsibility. Student works are juried and selected for public exhibition at the Salon international du design de Montréal.

Dart 447 - 3D Design Technologies (2002 to 2014)

This design studio course allows students to explore the integration of digital technologies in all aspects of the design process. Computer-assisted design, 3D scanning and rapid prototyping technologies are facilitated in order to develop innovative concepts in object production.

Dart 291 - Integrative Design Research (2002 to 2014)

This theory-based course concentrates on integrative research and methodology in design art, by mapping the relationship of the individual within the public and private spaces of interdependence.

**PhD Thesis
Supervision**

Alexandre Joyce (Principal Supervisor), SIP Program - since Fall 2012
Anabelle Martin (co-supervisor), SIP Program - since Fall 2011
Cheryl Gladu (co-supervisor), SIP Program - since Fall 2011
Lois Frankel (Principal Supervisor), SIP Program – since Fall 2008
Andre Arnold (co-supervisor), SIP Program – since Fall 2010
Claire Brunet (co-supervisor), SIP Program – since Fall 2007

**MA Thesis
Supervision**

Manuela Hummel (Principal Supervisor), INDI - since January 2013
Andrew Dolan (Principal Supervisor), Graduated in 2014
Yi Zhang (Principal supervisor), Graduated in 2009

Graduate Certificate Supervision	Marie-Hélène Goulet (2011-2012); Andrew Dolan (2008-2009); Tino Papaconstinou (2008-2009); Marie-Eve Roussy (2007-2008); Yi Zhang (2005-2006); Matthew Kennedy (2004-2005); Hyu Min (2003-2002), Gerard Cleal (2003-2002), Michael Polakin (2002-2003)
External Examiner	Charles Colby, Ma Thesis (2011) Université de Montréal Evelyn Simard, Ma Thesis (2008) Université de Montréal Isabelle Auclair, MA Thesis (2005) Université de Montréal
External Reviewer	SSHRC research application , for a Faculty at U. de Montréal (2009) Tenure dossier evaluation for a Faculty at NASCAD (2009) Reviewer for Siggraph 2013
Departmental Committees	Promotion and Communications Committee , ongoing Departmental Personnel Committee , 2003 to present CTC and Facilities Management Committee , ongoing External Liaison / International Committee , ongoing Fulltime Hiring Committee , 2003-2010 Part Time Hiring Committee , 2008-2010 Participation in the writing of the Master's program , 2009-2012 Student Admissions Committee , ongoing
Faculty Committees	Faculty Personnel and Tenure Committee (2012-2014) Health and Safety Committee (2010-2012) Search Committee, Chair of the Cinema Department (2010) Faculty Council (2007-2010) Deans and Chairs Committee (2007-2010)
University Committee	Concordia Graduate Awards Committee (2011-2013)
Memberships	<i>Hexagram</i> Institute for Research Creation in Media Arts and Technology Association of Industrial Designers of Québec –ADIQ Mission Design Design Research Society Centre inter-universitaire en arts médiatiques - CIAM

Management

Member of the CIAM **Board of Directors**, 2003-2005.

Director of the Advanced Digital Imaging and Rapid Prototyping Research Axis, Hexagram, January-June 2001.

Service

Year End Show Coordinator - 2008, 2009, 2011, 2012, 2013

Reviewer, Portfolio Day and Open House (ongoing)

Principal Investigator for the Form Z Joint Study Program, in Collaboration with *Autodesk*. (2000-2012)

Jury member and Presenter of the "Anselme Lapointe Career Award", "*Institut de Design Montréal*". (2001-2006)

Coordinator of the University-Student-Enterprise Partnership program, Funded by the "*Institut de design Montréal*" (1999-2006)

Organizer of the Interuniversity Ecodesign Exposition at the "*Salon du design d'intérieur de Montréal*" / SIDIM (1999-2011)

Coordinator for the Professional Internships in Milan, Italy. In collaboration with the Chair of the "École de design industriel" of the "Université de Montréal" (1999-2005)

Professional Experience

Industrial Designer - Freelance practice 1993-2014
Specialization: Furniture, Lighting, Exhibition Design
Projects featured at the Salon du design de Montréal

Fulltime Industrial Designer 1988-1993
Employer: Primeau Designers, Montréal

Professional Contracts

In collaboration with Philippe Lalande (ADIQ) Fall 1994
Project: Design of an electronic interface
Client: Miranda électronique

In collaboration with Luc Perreault (ADIQ) Fall 1994
Project: Exhibition design on electricity
Client: Hydro-Québec

In collaboration with Michel Fortier (ADIQ) Fall 1993
Project: Office and Home furniture systems
Client: Force et Forme