Note to reviewers: Items that are not covered in the current review are in grey font.

CURRICULUM VITAE

ISABELLE PESCHARD

WEBSITE: http://www.isabellepeschard.org/

EDUCATION

Philosophy

2000-04 : **Ph.D in Philosophy of Science**. Thesis advisor : Michel Bitbol. Sorbonne Paris 1 and Ecole Polytechnique, Paris.

1998-99: **M.A. in History and Philosophy of Science**. Sorbonne, Paris.Thesis Advisor: M. Bitbol.

1996-98: **B.A. in Philosophy**. Sorbonne, Paris 1.

Science

1992-95: **Ph.D in Fluid Mechanics**. Institut de Recherche sur les Phénomènes Hors Equilibre, University of Aix-Marseille. Thesis advisor: P. Le Gal.

1991-92: **M.Sc. in Fluid Mechanics.** Université d'Aix-Marseille. Thesis advisor: P. Le Gal.

1986-90: **B.Sc in Fluid Mechanics,** University d'Aix-Marseille

PROFESSIONAL POSITIONS

- 2008- : **Assistant Professor** of Philosophy, San Francisco State University
- 2006-8: **Research Fellow,** Philosophy Department, University of Twente, Netherlands
- 2006-8: **Instructor** for the Science and Technology Studies Master's Program, University of Twente, Netherlands.
- 1992-5: **Teaching Fellowship** in Fluid Mechanics, Université Aix-Marseille, (Ecole Supérieure de Mécanique de Marseille, Technopole de Château Gombert, Marseille).

GRANTS AND AWARDS

- 1992-95: Doctoral Science Fellowship
- Spring 2010: SFSU Vice President's Assigned Time Award
- 2010-12: NSF Scholar Award (SES-1026183) for the project : "Making Sense Of Modeling and Experimenting: Beyond Representation".

This project focuses on the earlier stages of inquiry before model and experimental arrangement have become fixed or stabilized. A better understanding of the process of modeling, and of the characterization of phenomena that guides development of research programs in science, will thus be achieved. In

particular, the results will provide a new form of interpretation of scientific conflicts and controversies, by bringing to light the role of judgments of relevance in the construction and evaluation of scientific models. This approach participates in a larger effort to foster constructive interactions between science and philosophy of science, and thus to facilitate the participation of philosophy of science in science policy debates concerning scientific development. Additionally, it will make philosophical study of science more attractive to philosophy students, and more relevant to science students, by uncovering the interactive and creative dynamics of scientific research.

TEACHING EFFECTIVENESS

COURSES TAUGHT

Undergraduate Courses

Phil 205: Formal Logic (F08, S09, F09, S10, F10, S11, F11, S12)
Phil 350: Introduction to Philosophy of Science (S09, S10)
New Phil 350 [Accepted for new GE program.]
Phil 611: Philosophy of Perception I (***New*** - F09, F10)

Graduate Courses

Seminar Scientific Modeling (***New*** Phil 850 – F08)
Seminar Scientific Experimentation (***New*** Phil 890-01 – F09, F12)
Seminar Science and the Self (***New*** Phil 890-02 – F10)
Seminar Evidence and Reliability (***New***-F11)

Independent Studies

Embodied cognition: group of 6 students working on embodied cognition and representation in cognitive activity (Spring 10)

Disjunctivism in Philosophy of Perception: group of 3 students working on theories of perceptual illusion and hallucination. (Spring 11)

NEW COURSES (NOT YET TAUGHT)

Phil 351: Introduction to the Philosophy of Risk [New GE program.]
Seminar on Learning From Error
Seminar on Epistemology of Simulation
Seminar on Embodied Cognition

MASTER THESES

- **SUPERVISOR**

Thesis Defended

- **Michael Morales** (Fall 10: 'The semantic view of scientific modeling')

- **Andrew Peterson** (Fall 10: 'Experiment as a machine for making the future')
- Publication: "The Relevance of Scientific Practice to The Problem of Coordination", *Spontaneous Generation: A Journal for the History and Philosophy of Science*, vol.5, no1 (2011) 44-57.
- **Tyrus Fisher** (Spring 11: 'Indeterminacy, behaviorism and realism: Two essays on Quine's indeterminacy thesis')
- Publication: "Quine's Behaviorism and Linguistic Meaning: Why Quine's Behaviorism is not Illicit" *Philosophia*, 39 (1), 2011.
- **Lia Rubinoff** (Spring 11: 'How radical embodied science reconceptualizes realism').
- **Stanley Konoval** (Fall 11: A New World Order: On Conceptual Content and Epistemological and Existential Justification.)
- **Curt Schmelzel** (Spring 11: Intentionality, Cognition & Dynamical Systems: Embodied and Cognitivist Approaches.)
- **Jeuel Wilkerson** (Fall 12: Pluralism, values and objectivity)
- **Raney Folland** (Fall 12: What we know that we don't know: Implicit beliefs)

Thesis In progress

- Dimitriy Kulikov (scheduled Fall 13)
- Gun Ik Pak (scheduled Fall 13)
- Brian Perez (scheduled Fall 13)
- John Lund (scheduled Spring 14)
- Julia Loo (scheduled Spring 14)

- **ON COMMITTEE**

- Mandy Kamangar (defended Fall 09)
- Gary Bengier (defended Fall 11)
- Chris Waroff (defended Fall 12)
- Matthew Heeney (defended Spring 12)
- Jimmy Licon (defended Spring 12)
- Travis Green (defended Spring 12)
- Lauren Reyna (Defended Fall 12)

SFSU QUANTITATIVE STUDENT EVALUATIONS

	Students enrolled	Students completed evaluation	Quantitative mean score	Comparative Departmental means
Spring 12: 205	60	35	1.33	1.59
Fall 11: 205	64	44	1.29	1.59
890-01	20	15	1.02	
Spring 11: 205	62	36	1.22	1.63
Fall 10: 205	49	31	1.14	
611	40	28	1.22	1.58

890-02	22	21	1.34	
Spring 10: 205	55	28	1.31	1.66
350	49	28	1.32	
Fall 09: 205	49	29	1.65	
611	43	25	1.18	1.60
890-01	22	18	1.32	
Spring 09: 205	46	35	1.30	1.57
350	51	31	1.66	1.57
Fall 08 205	40	25	1.53	1.71
850	20	18	1.36	

PROFESSIONAL ACHIEVEMENT AND GROWTH

PUBLICATIONS

Philosophy

Peer-reviewed articles

"Making the Abstract Concrete: The Role Of Norms And Values In Experimental Modeling" (first author, with Bas van Fraassen) forthcoming in *Studies in History and Philosophy of Science.*

"Forging Model/World relations: Relevance and Reliability", forthcoming in *Philosophy of Science*, 79, Dec. 2012.

"Computer Simulation As Substitute For Experimentation?", forthcoming in S. Vaienti (ed.) *Simulation and Networks*, Paris: Hermann.

"Making Sense of Modeling: Beyond Representation", *European Journal for Philosophy of Science*, 1(3): 335-352. (2011)

"Modeling and Experimenting", in P. Humphreys and C. Imbert (eds), *Models, Simulations, and Representation*, Routledge, pp.42-61 (2010)

"Non Passivity of Perceptual Experience", *Contemporary Pragmatism* 7: 149-164, (2010).

"Identity Over Time: Objective, Subjective", (second author, with B. van Fraassen) *Philosophical Quarterly* - Vol. 58, Issue 230: 15-35, (2008).

"The Value(s) of a Story: Theories, Models, and Cognitive Values", *Principia*, 11: 151-169, (2007).

Editor reviewed articles

"Les simulations sont-elles de réels substituts de l'expérience?" In Franck Varenne et Marc Silberstein (eds.), *Modeliser & Simuler. Epistemologies et pratiques de la modelisation et de le simulation*. Les Editions Materiologiques: 145-170, (2013).

(Paper adapted from a French translation of "Computer Simulation As Substitute For Experimentation?", forthcoming in S. Vaienti (ed.) *Simulation and Networks*, Paris: Hermann.)

"Target Systems, Phenomena, and The Problem of Relevance", *The Modern Schoolman*. 87, 3-4: 267-284, (2010).

"Heat, Temperature and Mental Concepts: A critique of a standard reductionist confusion", (first author, with M. Bitbol), in E. Wright (ed.) *The Case for Qualia*, MIT Press: 155-174, (2008)

"Participation of the Public in Science: Towards a New Kind of Scientific Practice", *Human Affairs* 17: 138-153, (2007).

Book Reviews

Review of E. Winsberg, Science in the Age of Computer Simulation, The University of Chicago Press (2010), for *Notre Dame Philosophical Reviews* (2010)

Review of T. Martin (ed.) Le Tout et les Parties dans les Systemes Naturels, Paris: Vuibert, 2007, for *International Studies in the Philosophy of Science* 22 (2), (2008) (In English).

Review of E. Selinger and R. Crease (eds.), The Philosophy of Expertise, Columbia University Press, 2006, for *Metapsychology* 12 (3), (2008)

Science:

Peer-reviewed articles

"On the spatio-temporal structure of cylinder wakes" (first author, with P. Le Gal and Y. Takeda), *Experiments in Fluids*, 26: 188-196, 1999.

"Coupled wakes of cylinders", (first author, with P. Le Gal), *Phys. Rev. Letters*, 77: 3122-25, 1996.

"Collective behavior of wakes downstream a row of cylinders", (third author, with P. Le Gal, Y. Takeda and M.P. Chauve), *Phys. Fluids*, 8 (8), 2097, 1996.

Editor reviewed articles

"The Ginzburg-Landau equation and the transition to turbulence in open flows", (third author, with P. Le Gal, M.P. Chauve, and S. Jarre), *Current Topics in the Physics of Fluids*, S.G. Pandalai (ed.), 1995.

WORK UNDER REVIEW

The experimental side of modeling (tentative title): collection of papers based on the three SFSU workshops (2009-2011). Edited by I Peschard and B van Fraassen, with introductions and contributions by the editors, for University of Chicago Press.

SELECTED PRESENTATIONS

Philosophy

"Norms and values in experimental modeling: Making the abstract concrete".

(Invited) Conference Values and Norms in Modeling (VaNiM), **University of Eindhoven (NL)**, June 2012.

"Writing the 'Book of Nature': Relevance Judgments and Epistemic Responsibility."

(Invited) Workshop From Fluid Mechanics To Philosophy Of Science, **University of Bucharest**, June 2012.

"Are Empirical Representations Causally Explained by Phenomena?"

(Invited) International Conference: *Representation and Explanation in the Sciences*, **Louvain-la-Neuve (Belgium)**, 26-28 April 2011.

"Experimental Reliability and Neglected Relevance of Relevance"

(Peer-reviewed) Philosophy of Science Association Biennial Conference, **Montreal**, 4-6 Nov. 2010.

"Relevance For What, Relevance For Whom: Numerical Simulation and Experimental Measurement Face-to-Face", presented at :

(Peer-reviewed) International Conference*: Models and Simulations 4* **University of Toronto**, 7-9 May 2010,

(Invited) Colloquium : *Simulations and Networks*, **Marseille**, 4-5 June 2010.

"Target Systems, Phenomena and the Problem of Relevance" :

(Invited) Henle Conference: *Experimental and Theoretical Knowledge*, **Saint Louis University**, 26-27 March 2010

"Measurement seen through the experimenters' eyes":

(Invited) Summer Seminar, **University of Colorado, Boulder**, July 2009.

"On the Use and Assessment of Models: Forget about Representation"

(Peer-reviewed) Society for Philosophy of Science in Practice Biennial Conference, **University of Minnesota**, June 2009

"Data-model or artifact?: on the role of relevant parameters in constructing models of phenomena"

(Invited) Seminar HPLMS, **University of California Berkeley**, April 2009

"Modeling and Experimenting"

(Peer-reviewed) International Conference *Models and Simulation 3*, **University of Virginia**, Mar 2009

Science

Joint author of the following:

"Coupled oscillators in fluid mechanics: wakes behind rows of cylinders", *4th SIAM Conference On Applications Of Dynamical Systems*, Snowbird, USA, 19-22 May 1997.

"Collective behavior of wakes shed by row of cylinders", *First international symposium on Ultrasonic Doppler Methods for Fluid Mechanics An Fluid Engineering* , Villengen, Switzerland, 9-11 Sept. 1996.

"On the structure of the cylinder wake", *First international symposium on Ultrasonic Doppler Methods for Fluid Mechanics An Fluid Engineering*, Villengen, Switzerland, 9-11 Sept. 1996.

"Coupled wakes", *American Physical Society Meeting*, Irvine, USA, 18-21 Nov. 1995

"Interaction of two bi-dimensionnal vortex sheddings", *Proceedings of the 1er Congrès de Mécanique*, Rabat, Morocco, 13-16 April 1993.

"Spatio temporal chaos in a chain of coupled wakes", P. Le Gal, I. Peschard, *International Symposium On Spatio Temporal Structure And Chaos*, Athens, Greece, 18-22 May 1992.

SERVICE TO THE COLLEGE AND THE PROFESSION

COMMITTEES

• 2008-10: member of SFSU Humtec committee

• 2011- : Elected member of the SFSU GE Certification Area B Sub-committee

• 2011- : Elected member of the SFSU humanities college Student Research Competition Committee

• Member of the Program Committee for the International Conference *Models and Simulations 5*, at the University of Helsinki, 14-16 June 2012

• Member of the APA Eastern Division Advisory Committee, 2012-2015.

REVIEWING ACTIVITIES:

- Submission of a nomination for the 2011 Lakatos Award. The nomination made the shortlist.
- Reviewer for *Notre Dame Philosophical Review*, *International Studies in the Philosophy of Science, Metapsychology*.
- Referee for the National Science Foundation, *MIT Press*, *Erkenntnis*, *Synthese*, *Journal for General Philosophy of Science*, *Philosophia Scientia*, *Spontaneous Generation*, *Mind and Matter*, *Philosophical Frontiers*, *Phenomenology and the Cognitive Sciences.*

ORGANIZATION OF PROFESSIONAL MEETINGS:

• Organizer of an International Workshop at the University of Twente: Ethics in Epistemology, May 29th, 2007.

• Local Organizer of the Bay Area Philosophy of Science (BAPS) reading group meetings at SFSU

• Organization of Student Workshop at SFSU:

"Radical Embodied Cognitive Science", SFSU, March 29, 2010

• Co-Organizer of a series of Workshop at San Francisco State University : The experimental side of modelling I, II, III. (Co-organizer: B. van Fraassen):

"The Experimental Side of Modeling 1" March 20-21, 2009

Karen Barad (UC Santa Cruz), **Nancy Cartwright** (London School of Economy, UC San Diego), **Joseph Rouse** (Wesleyan University), **Michael Weisberg** (University of Pennsylvania)

"The Experimental Side of Modeling 2" March 30-31st, 2010

Anthony Chemero, (Franklin and Marshall College, Scientific and Philosophical Studies of Mind) Program), **Alan Love** (University of Minnesota, Minnesota Center for the Philosophy of Science) **Elizabeth Lloyd**, (University of Indiana, Arnold and Maxine Tanis Professor of History and Philosophy of Science), **Roberta Millstein**, (UC Davis, Science and Technology Studies)

"The Experimental Side of Modeling 3" September 16-17, 2011

Ronald Giere (U Minnesota), **Jennan Ismael** (U Arizona), **Deborah Mayo** (Virginia Tech), **Eric Winsberg** (U South Florida), **Paul Teller** (UC Davis), **Alison Wylie** (U Washington).