



Report No.ILCLI-12-X-18

Annual Report 2012



THE UNIVERSITY OF THE BASQUE COUNTRY



INSTITUTE FOR LOGIC, COGNITION, LANGUAGE AND INFORMATION

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1 Introduction

The Institute for Logic, Cognition, Language and Information (ILCLI) was officially created by the Basque Autonomous Government on May 31, 1999. However, the real research work by its first members began some years before. It was eighteen years ago, on September 9, 1993, when its premises at Villa Asunción, in the East Donostia - San Sebastián, were inaugurated with a lecture by Nicholas Asher (Austin, Texas) entitled: *Non-monotonicity: a tool for discourse interpretation*. In September 2011 the Institute moved to its new location in the Carlos Santamaria Center, in the Ibaeta Campus.

ILCLI's main goal from the very beginning was to join together researchers working in the fields of language, cognition, information and communication, and integrate them in common projects. Particularly, philosophers, logicians, linguists, psychologists, mathematicians, artificial intelligence scientists and also social theoreticians on knowledge, action, and organization. This goal was pretty ambitious, given the burden of inter- and intra-disciplinary borders of the Spanish University System. In this sense, we are not exaggerating if we call ILCLI's project a pioneering one in its geographical context. Several years later, we can say that this goal is already fulfilled. Its members -more than 30 researchers- are a good example of the so-called multi-/inter-disciplinarity. There are people coming from seven different departments of the University of the Basque Country, as well as from other universities in the Basque Country and outside the Basque Country (in Spain, U.K., and France). Most importantly, these eighteen years served to form and develop various research groups of different sizes, with external specific funding or not, able to work together in close contact with similar international research groups.

ILCLI is now an international reference point for the interdisciplinary studies on language, reasoning, cognition, information, and communication. ILCLI has also a well-known reputation as the main research centre on the humanities and social sciences in the Basque Country.

However, this recognition has not been translated to a firm and clear economic support. It could be due for the traditional Basque preference for technical and industrial inquiry as opposed to the humanities and the social sciences; as well as for the universal contemporary view favouring applied, short-term technological results as opposed to basic, long-term scientific research —the so-called “engineerization” of all sciences— which pervades not only political and economic power environments but also authorities of private as well as public universities all over the Western World; but the truth is that the ILCLI achievements along those nineteen years have been made possible only by the disinterested enthusiasm of its own promoters and researchers.

The aim of this report is just to present the main research and academic activities carried out at the Institute during 2012.

2 Structure

Until April 18, 2012

Director of the Institute *Dr. Kepa Korta*
Senior Lecturer of Philosophy of Language

From April 18, 2012

Director of the Institute *Dr. Xabier Arrazola*
Senior Lecturer of Logic

Academic Secretary *Mr. Alain Ulazia*
Administrative Secretary *Ms. Juncal Araquistain*

**Chair of the Research
Ethics Committee** *Prof. Jesús Ezquerro*
Professor of Philosophy of Science

The Institute is divided into four sections and two research units. Each member belongs to one of the sections. Nevertheless, due to the multidisciplinary nature of the Institute, collaborations between sections are very common, as well as the overlapping of the research interests of its sections and members.

2.1 Section of Logic

The Logic section is directed by Dr. Xabier Arrazola and it has three other members, Dr. Javier Aguirre, Prof. Jesus Mari Larrazabal and Mr. Enez Ezenarro, currently doing his PhD.

The section is currently small but very active, having organized during the last years the *ILCLI International Workshop on Logic and Philosophy of Knowledge, Communication and Action* (LogKCA) and the series of seminars on logic and foundations of symbolic systems.

This section includes all topics having to do with formal logic, like the analysis of any kind of logical calculus and semantics, or history and philosophy of logic in general. More specifically, the research areas of specialization of its members are the following:

Logic. Foundations and applications to natural language and artificial intelligence; history and philosophy of logic; foundations of mathematics; logic and ontology, logic and cognition, foundations of computer science and artificial intelligence; historical philosophy of knowledge and reasoning.

Mathematics. Set theory, category theory, topology, universal algebra, logical algebras, discrete mathematics, formal languages and automata, mathematical modelling, statistics, probability theory, foundations of mathematics.

2.2 Section of Cognitive Science

Directed by Dr. Luis Ángel Pérez Miranda, it has six other members, Prof. Jesús Ezquerro, Dr. Lorena Gil de Montes, Dr. Mikel Plazaola, Mr. Alain Ulazia, currently doing his PhD, Dr. Esther Torres, Dr. María José Valderrama and Dr. Sagrario Yarnoz.

This section is in charge of the organization of the *ILCLI International Workshop on Cognitive Science* (IWCogSc).

The section has a clear multidisciplinary nature, being formed by researchers coming from philosophy, psychology and physics, and is devoted to the analysis of cognitive processes from the perspectives of psychology, artificial intelligence and philosophy. In particular:

Cognition. Structure of a cognitive agent and basic cognitive processes (perception, knowledge and belief, memory, reasoning, learning, decision-making, intention and action). Social cognition.

2.3 Section of Language and Communication

It is directed by Dr. Joana Garmendia and it has eight more members, Mr. José M. Aranburu, currently doing his PhD, Prof. Eros Corazza (Ikerbasque Research Professor), Mr. Ibon Coteron, Dr. Mikel Haranburu, Mr. Hibai Iztueta, currently doing his PhD, Dr. Kepa Korta, Dr. Agustín Ramos and Dr. Larraitz Zubeldia.

The section is responsible for the organization of the seminars on language and communication and the *ILCLI International Workshop on Semantics, Pragmatics, and Rhetoric* (SPR). The research areas of the section are the analysis of language, particularly its semantic and pragmatic aspects within the frame of some general theories of information and communication. More particularly:

Language. Grammatical, semantic and pragmatic theories; foundations of communication theory; philosophy of language.

Discourse Analysis. Linguistic approaches; psychological, sociological and political aspects; discourse modes; formal methods.

2.4 Section of Information, Action and Organization

It is directed by Prof. Jesus M. Larrazabal and it has four other members, Dr. Iñaki Heras, Mr. Aitor Izagirre, currently doing his PhD dissertation, Dr. Mikel Olazarán and Dr. Beatriz Otero.

The section's main goal is to analyze systems of action and organization, as well as information from a multidisciplinary point of view. The research work of its member thus concerns:

Knowledge and Organization Systems. Information systems; organization theory; social action theory; science and technology systems; innovation systems; knowledge-based society; foundations of social, political and economic systems.

2.5 Units

Unit of Epistemology, Ethics and Social Philosophy Coordinated by Prof. Jesús Ezquerro it is a philosophically oriented unit, devoted on the one hand to general epistemology, philosophy of mind, and social philosophy, and on the other hand to applied ethics.

Unit of Formal Methods for Language, Cognition and Action Coordinated by Prof. J. M. Larrazabal, it was created in 2008 and its aim is to improve research in Mathematics applied to Cognitive Science, Language Theory, Information Theory, and Action Systems.

3 Main Research Areas

Research is multidisciplinary in the following areas:

Logic. Foundations and applications to natural language and artificial intelligence; history and philosophy of logic; foundations of mathematics; logic and ontology, logic and cognition, foundations of computer science and artificial intelligence; historical philosophy of knowledge and reasoning.

Language. Grammatical, semantic and pragmatic theories; foundations of communication theory; philosophy of language.

Cognition. Structure of a cognitive agent and basic cognitive processes (perception, knowledge and belief, memory, reasoning, learning, decision-making, intention and action). Social cognition.

Foundations of Computer Science and Artificial Intelligence. Artificial Intelligence, Intelligent agents and multi-agent systems; computability and theories of computation.

Mathematics. Set theory, category theory, topology, universal algebra, logical algebras, discrete mathematics, formal languages and automata, mathematical modelling, statistics, probability theory, foundations of mathematics.

Knowledge and Organization Systems. Information systems; organization theory; social action theory; science and technology systems; innovation systems; knowledge-based society; foundations of social, political and economic systems.

Discourse Analysis. Linguistic approaches; psychological, sociological and political aspects; discourse modes; formal methods.

Rhetoric. History of rhetoric; rhetorical analysis of discourse; argumentation; dialectics/rhetoric; semiotic and rhetoric.

Human and Social Sciences. History and philosophy of human and social sciences, methodological issues, ethics, foundations and applications to language, cognition, and action.

4 Research Activities

4.1 Unit of Training and Research

Following the Research Strategy of the University, a Unit of Training and Research has been created in 2012, with the following name: “ILCLI: Language and Reasoning; Knowledge and Action” (UTR/PIU/UFI 11/18). The aim of the Unit is to improve research and to organise training plans in the research fields of the Institute, taking into account its multidisciplinary character. There are two main axes: on the one hand, the one constituted by the inquiry about language and communication, from a semantic and pragmatic view, and also from a rhetorical view, including all contributions coming from Philosophy, Psychology and Anthropology of Language and Communication; on the other hand, the second axis is given by the inquiry on cognitive processes, information flow, knowledge production and distribution, mental states and social action. Empirical and formal methods are at the core of the research methodology. The research lines of the Unit correspond to those of the Institute.

4.2 Ph.D. Theses

Currently there are 6 Ph. D. theses and 4 MA theses in process of completion at the Institute, in the following fields: Philosophy and Foundations of Cognitive Science; Analysis of Discourse; Semantics of Propositional Attitudes; Philosophy, Philosophy of Action, Logic and Foundations of Mathematics.

4.3 Seminars and Workshops

In 2012, the following seminars have been held at the Institute:

Seminar on Cognitive Science and Philosophy

- Eric Schwitzgebel (Univ. of California, Riverside), Tuesday, October 9: If Materialism Is True, the United States Is Probably Conscious.
- Alan T. Moore (California, Riverside-ILCLI), Thursday, March 1: How Well Do We Know our own Conscious Experience: Perceiving and reading edition.
- David Davies (McGill, Montréal), Thursday, February 23.: Fictionality, Fictive Utterance, and the Assertive Author.

Seminar on Language and Communication

- Benji Hellies (Univ. of Toronto), Monday, May 14. Propositions without Facts

Seminar on 'Social Cognition and Social Action'

- Reading Group on 'Social Cognition and Social Action'. From June 4 to July 9.

First IIF-ILCLI Workshop on Language, Cognition, and Logic, Donostia, June 21-22, 2012. This was the first of a series of joint workshops of the Instituto de Investigaciones Filosóficas (UNAM, Mexico)

and the Institute for Logic, Cognition, Language and Information (UPV-EHU, Basque Country) on issues related to language, cognition and logic. This time, held in Donostia (ILCLI, Carlos Santamaria Zentroa), it was a read-ahead seminar with the following schedule:

- Axel Barceló (IFF), ‘What is Deductive Inference?’, comments by Jesus M. Larrazabal (ILCLI).
- Joana Garmendia (ILCLI), ‘Irony. A Gricean Reply to a Relevant Echo’, comments by Ángeles Eraña (IIF).
- María Ponte (Sevilla), ‘Tomorrow Never Begins. Assertions, Existence and Time’ comments by Ekain Garmendia (IIF).
- Eduardo Garcia-Ramirez & Ángeles Eraña (IFF), ‘Cognitive Disjunctivism’, comments by Jesús Ezquerro (ILCLI)

4.4 ILCLI International Workshops

ILCLI International Workshop on Cognitive Science CogSc-12

Donostia - San Sebastián, 28-30 November 2012

SPEAKERS

1. Eduardo Alonso (London), *Alan Turing: A Tribute on his centenary*
2. Ronald de Sousa (Toronto), *Reasoning and Emotion, in the light of the Dual Processing Model of Cognition*
3. Mark Keane (Dublin), *Deconstructing Analogy*
4. Boicho Kokinov (Sofia), *Conscious and Unconscious Processes in Human Thinking*
5. Alfred Mele (Tallahassee, Florida), *Consciousness in Action: Free Will, Moral Responsibility, Data, and Inferences*
6. Albert Newen (Bochum), *The Individuation and Recognition of Emotion*
7. Joëlle Proust (Paris), *The norms of acceptance*

PROGRAM COMMITTEE

Bruno Bara (Torino), Cédric Brun (Bordeaux), Ángeles Eraña (México), Jesús Ezquerro (Donostia), Kepa Korta (Donostia), Lorena Gil de Montes (Donostia), Jesus M. Larrazabal (Chair, Donostia), Esther Mondragon (London), Carlos Moya (Valencia), Diana Pérez (Buenos Aires), Stuart Silvers (Clemson)

ORGANIZING COMMITTEE

Xabier Arrazola (ILCLI), Mikel Haranburu (ILCLI), Aitor Izagirre (ILCLI), Luis A. Pérez (ILCLI), Jose Valencia (UPV/EHU), Sagrario Yarnoz (ILCLI)

5 Academic Activities

Research Master in Cognitive Science and Humanities: Language, Communication and Organization 2013-2015

Its aim is to promote high quality research and excellent teaching which challenges and inspires students and faculty alike. Stimulating critical thinking and analytical skills, the program offers a multidisciplinary education on key concepts and problems of knowledge-based society. The Master prepares the students for a Ph.D. All courses are taught in English.

Contact: Juncal Araquistain at juncal.araquistain@ehu.es
(Tel. +34 943 017451).

More information:
<http://www.ilcli.ehu.es>

A two-year long program has been designed to prepare talented students for a Ph.D., and an academic or professional career. This program emphasizes methodological skills, encourages interdisciplinary approaches, and provides the student with ample opportunity to pursue his or her particular interests in small groups and/or individual tutorials.

The Master is structured in 90 ECTS (60 theoretical and practical and 30 for the Master Thesis). Students entering with a degree of 180 ECTS will be able to obtain the extra 30 ECTS needed through complementary theoretical and practical ECTS.

Students may specialize in any topic in the intersection between the Humanities (Philosophy, Rhetoric, Art, Ethics, ...) and the Cognitive Sciences (Linguistics, Logic, Psychology, Sociology, Philosophy of Action and Mind, ...) related to the studies of Language, Communication and Action.

This is an International Master, designed to attract both international students and teachers. The teaching staff includes researchers from national and foreign Universities, including the University of the Basque Country, Barcelona, La Laguna, Valencia, Ottawa, Paris, Turin. Also, exchange programs are arranged for Master Students with Research Centers in Canada, France and Spain.

PRE-REGISTRATION FOR 2013-2015 RESEARCH MASTER IS NOW OPEN

6 Publications

- [1] **Aguirre, J. (2012)**, Goethe, Schleiermacher y la valoración del Ion. *Endoxa*, **29**: 69-88
- [2] **Aguirre, J. (2012)**, La crítica de Aristóteles y Teofrasto a la concepción ígnea del ojo *Emérita*, **LXXX**, **1**: 89-106
- [3] **Albizu, E., Olazarán, M., Otero, B. (2012)**, El papel de la formación profesional en la innovación de las pymes de la Comunidad Autónoma del País Vasco: Un estudio cualitativo In **L. Merino (ed.)**, *Contextos y usos de la innovación social*. Bilbao: servicio Editorial de la Universidad del País Vasco (UPV-EHU), 243-268
- [4] **Alonso, E. (2012)**, Alan Turing: A Tribute on his centenary. In **Larrazabal, J.M. (ed.) (2012)**, *Cognition, Reasoning, Emotion and Action. Proceedings of the ILCLI International Workshop on Cognitive Science - CogSc-12*, 15-34
- [5] **Aurnague, M. (2012)**, Quand la routine s’installe: remarques sur les emplois de à de type “routine sociale”. *Revue Romane*, **47:2**: 189-218.
- [6] **Aurnague, M. (2012)**, De l’espace à l’aspect: les bases ontologiques des procès de déplacement. *Corela*, n thématique (*Langue, espace, cognition*, **B. Fagard & D. Stosic (eds)**), <http://corela.edel.univ-poitiers.fr/index.php?id=2846>.
- [7] **Corazza, E. & J. Dokic (2012)**, Situated Minimalism versus Free Enrichment. *Synthese* **184 (2)**: 179-98.
- [8] **Corazza, E. (2012)**, Same-Saying, Pluri-Propositionalism, and Implications. *Mind & Language* **27 (5)**: 546-69.
- [9] **Coterón, I. (2012)**, Apuntes de filosofía del euskara, IV: verdades y medias verdades de la explicación al uso de la construcción participio+egin+verbo auxiliar del euskara occidental. *Euskalingua***21**: 34-39.
- [10] **Garmendia, J. (2012)**, *Ironiaren azterketa pragmatiko kritikoa: Zer eta nola komunikatzen du hiztun ironikoak*. UEU: Tesiker Saila.
- [11] **Izagirre, A. & I. Petralanda (2012)**, On the idea of action in Davies’ performance theory of art. In **Larrazabal, J.M. (ed.) (2012)**, *Cognition, Reasoning, Emotion and Action. Proceedings of the ILCLI International Workshop on Cognitive Science - CogSc-12*, 173-188.
- [12] **Korta, K. (2012)**, Holmes, Perry and reference. In **A. Newen and R. van Riel (eds.)**, *Identity. Language, & Mind. An Introduction to the Philosophy of John Perry*. Stanford: CSLI Publications, 33-52.
- [13] **Larrazabal, J.M. (ed.) (2012)**, *Cognition, Reasoning, Emotion and Action. Proceedings of the ILCLI International Workshop on Cognitive Science - CogSc-12*. BilbaoUniversity of the Basque Country Press, 2012.

- [14] **Lavía, C., Olazaran, M., Albizu, E., Otero, B (2012)**, Formación continua en centros de FP y actividades de innovación en las pymes industriales. *Arbor* **188-753**: 153-170.
- [15] **Olazaran, M., Otero, B., Ayerdi, P., Feliú, R., Lavilla, I., Albizu, E. and Lavía, C. (2012)**, *Pymes industriales y sistema de innovación en Navarra*. Barcelona: Omnia Science.
- [16] **Olazaran, M. & Otero, B. (2012)**, Sistema de evaluación por pares, organización social de la ciencia y política científica In **E. Aibar y M. Quintanilla, (Eds.)**, *Ciencia, tecnología y sociedad. Enciclopedia Iberoamericana de Filosofía*, Ed. Trotta, Consejo Superior de Investigaciones Científicas, 221-249
- [17] **Ulazia, A. (2012)**, La Máquina de Marly. IKD baliabideak 4. <http://cvb.ehu.es/ikd-baliabideak/ulazia-04-2012.htm>
- [18] **Ulazia, A. (2012)**, The role of analogy in the genesis of Bernoulli relation and the concept of pressure. In **Larrazabal, J.M. (ed.)(2012)**, *Cognition, Reasoning, Emotion and Action. Proceedings of the ILCLI International Workshop on Cognitive Science - CogSc-12*, 223-232.
- [19] **Zubeldia, L. (2012)**, Review of Experimental Pragmatics-Semantics (J. Meibauer & M. Steinbach (eds.), 2011). *Journal of Pragmatics* *bf* 44: 2100-2103.

6.1 GOGOA

This is the journal promoted by the Institute. It is devoted to the study of language, knowledge, communication, and action. All contributions are written in Basque (with abstracts in English). Indexed at the Philosopher's Index and Modern Language Association (MLA). A new issue has been published in 2012.

GOGOA 11-1

Larraitz Zubeldia, ‘Omen’ partikula: ziurtasunak eta ziurtasunik ezak

Alain Ulazia Manterola, ‘Analogia fisikarien sormenean’

Koldo Díaz Bizkarguenaga, ‘Euskal identitatearen garapena online sare sozialen bidez: gazteen praktika sozialak Facebooken’

Pello Huizi, ‘Are we free?: Psychology and Free Will (John Baer, James C. Kaufman & Roy F. Baumeister, arg.)’

GOGOA 11-2

Agurtzane Azpeitia, ‘ETA buruan duten enuntziatu parentetikoak Koldo Mitxelenaren prosan’

Jonathan Lavilla de Lera, ‘Dialektika Platonen Fedro dialogoan’

Alain Ulazia Manterola, ‘Galileo Engineer (Matteo Valleriani)’

Xabier Arrazola, ‘Mathematical thought and its objects (Charles Parsons)’

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More information: <http://www.ilcli.ehu.es>

7 ILCLI Members and Visiting Researchers

1. Javier Aguirre
2. Eduardo Alonso (City University London and Research Associate Fellow at the ILCLI)
3. Jose M. Aranburu (Ph.D. Student)
4. Juncal Araquistain (Institute’s administrative secretary)
5. Xabier Arrazola
6. Frantziska Arregi (Emeritus Honorary Fellow at the ILCLI)
7. Mixel Aurnague (CLLE-ERSS, Univ. de Toulouse-Le Mirail and Research Associate Fellow at the ILCLI)
8. Eros Corazza (ILCLI, IKERBASQUE)
9. Ibon Coteron (Ph.D. Student)
10. Enetz Ezenarro
11. Jesús Ezquerro
12. Joana Garmendia
13. Lorena Gil de Montes
14. Mikel Haranburu
15. Iñaki Heras
16. Pello Huizi (Emeritus Honorary Fellow at the ILCLI)
17. Aitor Izagirre (Ph.D. Student)
18. Hibai Iztueta (Ph.D. Student)
19. Kepa Korta
20. Jesus M. Larrazabal
21. José Martínez (Univ. Barcelona; IKERBASQUE, Research Associate Fellow at the ILCLI)
22. Anibal Monasterio (Ph.D. Student)
23. Alan T. Moore (Univ. of California, Riverside, Visiting Researcher at ILCLI)

24. Mikel Olazaran
25. Beatriz Otero
26. Luís Angel Pérez
27. Mikel Plazaola
28. María Ponte
29. Agustín Ramos
30. Esther Torres
31. Alain Ulazia
32. María José Valderrama
33. Sagrario Yarnoz
34. Larraitz Zubeldia

8 Master Students

1. Josu Acosta
2. Ana Agirrebalzategi
3. Ahmed Bakkali
4. Mariam Charreh
5. Hilde Cocquyt
6. Zvonko Díaz
7. Bilal El Hamdani
8. Erlantz Etxeberria
9. Socrates García
10. Ekaterina Godyaeva
11. Jon Intxaurreaga
12. Georgios Karakasis
13. Aldo Lozano
14. Igor Petralanda
15. Tsvetelina Sarbova
16. Charlotte Tonnies

9 Speakers

1. Eduardo Alonso (City University London & ILCLI)
2. Axel Barceló (IIF, UNAM)
3. David Davies (McGill University, Montréal)
4. Ángeles Eraña (IIF, UNAM)
5. Eduardo García Ramírez (IIF, UNAM)
6. Joana Garmendia (ILCLI)
7. Benji Hellies (University of Toronto)
8. Mark T. Keane (University College Dublin)
9. Boicho Kokinov (New Bulgarian University, Sofia)
10. Jesus M. Larrazabal (ILCLI)
11. Alfred Mele (Florida State University, Tallahassee)
12. Alan T. Moore (University of California, Riverside & ILCLI)
13. Albert Newen (Ruhr-Universitt Bochum)
14. María Ponte (University of Sevilla)
15. Joëlle Proust (Institut Jean-Nicod, Paris)
16. Eric Schwitzgebel (University of California, Riverside)
17. Ronald de Sousa (University of Toronto)