

# Caterina Villani

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Postdoctoral research in Cognitive Psychology  
Dept. Modern Languages, Literatures, and Cultures.  
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## Research Interests

Cognitive Science, Psychology, Linguistics, Semantics, Language Processing, Categorization, Social Interactions, Pragmatic, Conversations, Open Science.

## Academic positions

- 2022-present **Postdoctoral Research**, Dept. of Modern Languages, Literatures, and Cultures, University of Bologna, Italy. ABSTRACTION project (ERC-2021-STG-101039777). Topics: Specificity and Concreteness in the human mind. PI: prof. Marianna Bolognesi
- 2022 **Fellowship** (5 months), Brain Language Laboratory, Freie Universität Berlin, Berlin. Germany. Project: The time course of speech act recognition of questions and statements in Italian by speech prosody: A gating study; Interaction of gestural and verbal-semantic information in understanding different speech acts. Supervisors: prof. Friedemann Pulvermüller and Rosario Tomasello.
- 2021 **PhD Visiting Researcher** (6 months), Brain Language Laboratory, Freie Universität Berlin, Berlin, Germany. Supervisor: prof. Friedemann Pulvermüller.
- 2020 **Fellowship**, Erasmus+ Programme of the European Union. University of Palermo, Krakow, Maastricht, Alicante, Ljubljana, and Bologna. Project: RECOGNIZE Legal Reasoning and Cognitive Science - Unit 4: The cognitive structure of legal concepts. Supervisor: prof. Corrado Roversi.
- 2019-2020 **Fellowship** (3 months), Interdepartmental Center of History of Law, Philosophy and Sociology of Law, and Legal Informatics (CIRSFID), University of Bologna, Italy. Project: ALMA IDEA Experimental Theory of Law: embodied cognition and perception of legal. Supervisors: prof. Corrado Roversi and Luisa Lugli.

## Education

- 2018-2022 **PhD in Philosophy, Science, Cognition, and Semiotics**, University of Bologna, Italy.  
Title: Variety, flexibility and use of abstract concepts: A multiple grounded perspective.  
<http://amsdottorato.unibo.it/10310>. Supervisor: prof. Anna M. Borghi.
- 2014-2017 **M.A. in Philosophical Sciences** (110/110 cum laude), University of Bologna, Italy.  
Title: Concepts, tools of language. An experimental study for a taxonomy of abstract concepts.  
Supervisors: prof. Luisa Lugli, Francesco Bianchini, and Anna M. Borghi.
- 2010-2013 **B.A. in Humanities Sciences, Philosophy** (110/110 cum laude), University of Siena, Italy.  
Title: Nature of consciousness: the debate between David Chalmers and Paul and Patricia Churchland. Supervisor: Prof. Sandro Nannini.

## Institutional roles

- 2018-2022 **Ph.D. student representative**. PhD course in Philosophy, Science, Cognition, and Semiotics, Dept. of Philosophy and Communication, University of Bologna, Italy

## Fundings

- 2022 Fellowship (5 months) – Freie Universität Berlin, Berlin, DE ~ 9.000 EUR
- 2021 Marco Polo Grant for international mobility – University of Bologna, Italy ~ 3.500 EUR
- 2021 Teaching assistant in Psycholinguistic Couse (MA) – University of Bologna, Italy ~ €1.500
- 2019 AILMA IDEA fellowship (3 months), Interdepartmental Center of History of Law, Philosophy and Sociology of Law, and Legal Informatics (CIRSFID) – University of Bologna, Italy ~ 3.000 EUR
- 2018 Ph.D. fellowship – University of Bologna, Italy ~ 45.000 EUR

## Research Activities

- 2024 **Lab2Lab Abstraction group & RTG Computational Cognition**, prof. Dr. Nicole Gotzner, University of Osnabrueck, Germany, February 15.
- 2024 **Lab2Lab Abstraction group & Polifonia** (Horizon 2020), prof. Valentina Presutti, University of Bologna, Italy, January 19.
- 2023 **7th Corpus Linguistics Summer School**, University of Birmingham, UK, September 11-14.
- 2023 **Lab2Lab Abstraction group & Marco Marelli' research group**  
University of Milan, Italy, June 16.
- 2023 **Lab2Lab Abstraction group & Experimental Philosophy**, prof. Valentina Cuccio, University of Messina, Italy, May 18.
- 2022 **Traincrease Workshop: Experimental designs for the study of abstract concepts in interaction** (Horizon 2020). Sapienza University of Rome, Italy, May 23-25.
- 2020-2021 **Annual Colloquium: Progress in Brain Language Research**, Brain Language Laboratory, Freie Universität-Berlin, Berlin, Germany.
- 2021 **Winter Seminar: Semantics – Embodiment – Extrospection**, organized by Prof. Martin Fischer, Michael Pauen, and Friedemann Pulvermüller. University of Potsdam, Freie Universität-Berlin, Humboldt Universität, Berlin, Berlin, Germany, March 15-19.
- 2020 **Summer school Introduction to analysis with R** (32hours), Sapienza University of Rome. Prof. Fabio Presaghi.

## Teaching Activities

- 2024 **Guest Lecturer (3hours)** MA in Semiotics, Psycholinguistic course held by prof. Luisa Lugli, Dept. of Philosophy, University of Bologna, Italy.  
Title: Variety of abstract concepts and their use in communicative contexts.
- 2024 **Guest Lecturer (2hours)**, MA in Italian Culture and Language for Foreigners course, Idioms and Language course held by prof. Marianna Bolognesi, Dept. of Modern Language, Literatures, and Cultures, University of Bologna, Italy.  
Title: Abstract concepts: A challenge for theories of cognition.
- 2023 **Guest Lecturer (2hours)**, MA in Italian Culture and Language for Foreigners course, Idioms and Language course held by prof. Marianna Bolognesi, Dept. of Modern Language, Literatures, and Cultures, University of Bologna, Italy.  
Title: Abstract concepts: A challenge for theories of cognition.
- 2023 **Guest Lecturer (3hours)** MA in Semiotics, Psycholinguistic course held by prof. Luisa Lugli, Dept. of Philosophy, University of Bologna, Italy.

- Title: Abstract Concepts: A challenge for theories of cognition.
- 2022 **Guest Lecturer (3hours)**, MA in Semiotics, Psycholinguistic course held by prof. Luisa Lugli, Dept. of Philosophy, University of Bologna, Italy.  
Title: Embodied Cognition and Abstract concepts: Variety, flexibility, and use.
- 2021-2022 **Teaching Assistant (150 hours) in Psycholinguistic (BSc. and MA)**, Dept. of Philosophy, University of Bologna, Italy.
- 2021 **Guest Lecturer (3hours)**, MA in Semiotics, Psycholinguistic course held by prof. Luisa Lugli, Dept. of Philosophy, University of Bologna, Italy.  
Title: Sub-kinds of abstract concepts; grounding of institutional concepts: the role of expertise
- 2020 **Guest Lecturer (3hours)**, MA in Semiotics, Psycholinguistic course held by prof. Luisa Lugli, Dept. of Philosophy, University of Bologna, Italy.  
Title: Concrete and abstract concepts: facilitation and interference evidence.
- 2020 **Guest Lecturer (2hours)**, MA in Semiotics, Psycholinguistic course held by prof. Luisa Lugli, Dept. of Philosophy, University of Bologna, Italy.  
Title: Abstract and concrete concepts in communicative contexts: Experimental debriefing.
- 2019 **Guest Lecturer (2hours)**, MA in Semiotics, Psycholinguistic course held by prof. Luisa Lugli, Dept. of Philosophy, University of Bologna, Italy.  
Title: Classical and embodied theories of concepts; concrete and abstract concepts representation.
- 2018 **Guest Lecturer (2hours)**, MA in Semiotics, Psycholinguistic course held by prof. Luisa Lugli, Dept. Philosophy, University of Bologna, Italy.  
Title: Theories and Taxonomy of Abstract Concepts: Analysis and MA thesis results.

## Supervision

- 2024 Supervisor 1 MA grad thesis in Linguistics, University of Bologna, Italy.  
2022-2023 Supervisor 1 MA grad thesis in Linguistics, University of Bologna, Italy.

## Organization of scientific events

- April 2025 Organizer and chair – *Conversational Dynamics: How Abstraction and Abstractness Ebb and Flow in Interaction*. Seminar with international invited speakers, University of Bologna, Italy.
- March 2018 Organizing committee – *Brain Awareness Week, “Words and Meaning: theoretical and clinical application perspective”*. Aphasia Centre CIRP, Torino, Italy.
- December 2017 Organizing committee – *14th Annual Conference of the Italian Association of Cognitive Science (AISC)*, University of Bologna, Italy.

## Dissemination Activities

- 2024 *Festival della Scienza: Scale di Parole*. Workshops, Genova, Italy, October 30-31.
- 2023-2024 *Penne Amiche della Scienza*. Online outreach, middle school, November-May.
- 2023-2024 *Word Ladders: Scale di Parole*. Workshops, primary and middle School, Imola, Italy, November-May.

## Editorial roles - Occasional Reviewer

Since 2023	NeuroImage Behavioral Research Method Language and Cognition
Since 2022	Psychological Research
Since 2021	Review of Philosophy and Psychology
Since 2019	Cognitive Processing PeerJ

## Participation in Research Groups

Since 2022	ABSTRACTION group (ERC), University of Bologna, Italy.
2022-2023	BALLAB – Body Action Language Lab, Sapienza University of Rome, Italy.
2022-2021	Brain Language Laboratory, Freie Universität Berlin, Berlin, Germany.
2018-2021	Legal Theory and Cognitive Science Laboratory, University of Bologna, Italy. Cognitive psychology LAB, University of Bologna, Italy.

## Member of Scientific Societies

Since 2024	Cognitive Science Society (COGSCI)
Since 2023	Embodied and Situated Language Processing (ESLP)
Since 2017	Associazione Italiana di Psicologia – Sezione Sperimentale (AIP) Associazione Italiana di Scienze Cognitive (AISC)

## Technical Skills

Experiment design	E-Prime; Gorilla; PsychoPy; Gorilla; Qualtrics survey
Statistical analyses	R; SPSS; Python (basic); Praat, Audacity, ELAN

## Languages

Italian	native speaker
English	fluent
German	basic

## Publications

### *Peer-reviewed international journal articles*

1. Villani, C., D'Ascenzo, S., Ubertone, M., Benassi, M.G., Borghi, A.M., Roversi, C., & Lugli, L. (2024). Abstract concepts and expertise: the case of institutional concepts. *Sci Rep* 14, 25874. <https://doi.org/10.1038/s41598-024-77308-7>
2. Mazzuca, C., Villani, C., Lamarra, T., Bolognesi, M. M., & Borghi, A.M. (2024). Abstract Sentences elicit more Uncertainty and Curiosity than Concrete Sentences. In *Proceedings of the Annual Meeting of the Cognitive Science Society* (Vol. 46). <https://escholarship.org/uc/item/7cj2g289>

3. **Villani C.**, Loia A., & Bolognesi M. (2024). The semantic content of specific, generic, abstract, and concrete concepts. *Language and Cognition*, 1-28. <https://doi.org/10.1017/langcog.2023.64>
4. Ubertone, M., Borghi, A. M., **Villani, C.**, & Lugli, L. (2023). Embodied Cognition and Legal Concepts. In *Diritto e Questioni Pubbliche*, RECOGNISE, *Legal Reasoning and Cognitive Science: Topics and Perspectives*, (pp. 103-118).
5. Banks, B., Borghi, A.M., Fargier, R., Fini, C., Jonauskaite, D., Mazzuca, C., Montalti, M., **Villani, C.**, & Woodin, G. (2023). Consensus Paper: Current Perspectives on Abstract Concepts and Future Research Directions. *Journal of Cognition*, 6(1), 62. <https://doi.org/10.5334/joc.238>
6. Roversi, C., Ubertone, M., **Villani, C.**, d'Ascenzo, S., & Lugli, L. (2022). Alice in wonderland: experimental jurisprudence on the internal point of view. *Jurisprudence*, 1-28. <https://doi.org/10.1080/20403313.2022.2109884>.
7. **Villani, C.**, Orsoni, M., Lugli, L. Benassi M., & Borghi A. (2022) Abstract and concrete concepts in conversation. *Sci Rep* 12, 17572. <https://doi.org/10.1038/s41598-022-20785-5>.
8. **Villani, C.**, D'Ascenzo, S., Scerrati, E., Ricciardelli, P., Nicoletti, R., & Lugli, L. (2022). Wearing the face mask affects our social attention over space, *Frontiers in Psychology: Research topic. Impact of Face Covering on Social Cognition and Interaction*, 4682. <https://doi.org/10.3389/fpsyg.2022.923558>
9. Scerrati, E., D'Ascenzo, S., Nicoletti, R., **Villani, C.**, & Lugli, L. (2022). Assessing interpersonal proximity evaluation in the COVID-19 era: Evidence from the affective priming task. *Frontiers in psychology*, 13, 901730. <https://doi.org/10.3389/fpsyg.2022.901730>
10. Scerrati, E., Marzola, G., **Villani, C.**, Lugli, L., & D'Ascenzo, S. (2022). Nuovi scenari per gli esperimenti in psicologia: la modalità online, *Giornale Italiano di Psicologia/a*. XLVIII, n. 3, settembre. <https://dx.doi.org/10.1421/104144>
11. D'Ascenzo, S., Scerrati, E., **Villani, C.**, Galatolo, R., Lugli, L., & Nicoletti, R. (2022). Does social distancing affect the processing of brand logos? *Brain and Behavior*, e2501. <https://doi.org/10.1002/brb3.2501>
12. D'Ascenzo, S., Scerrati, E., **Villani, C.**, & Lugli, L. (2021). Processi cognitivi e pandemia: l'influenza del distanziamento sociale sull'elaborazione di loghi commerciali, *Giornale Italiano di Psicologia*, pp. 577-585. <https://dx.doi.org/10.1421/102710>
13. **Villani, C.**, D'Ascenzo, S., Borghi, A.M., Roversi, C., Benassi, M., & Lugli, L. (2021). Is justice grounded? How expertise shapes representation of institutional concepts. *Psychol. Res.* 1-17. <https://doi.org/10.1007/s00426-021-01492-8>
14. **Villani, C.**, Lugli, L., Liuzza, M.T., Nicoletti, R., & Borghi, A.M. (2021). Sensorimotor and interoceptive dimensions in concrete and abstract concepts. *J. Mem. Lang.*, 116, 104173. <https://doi.org/10.1016/j.jml.2020.104173>
15. **Villani, C.**, & Lugli, L. (2020). L'effetto Simon e il suo decorso temporale con stimoli linguistici non spaziali, *Giornale Italiano di Psicologia*, 1/ pp. 305-314. <https://doi: 10.1421/96612>
16. **Villani, C.**, Lugli, L., Liuzza, M.T., & Borghi, A.M. (2019). Varieties of abstract concepts and their multiple dimensions. *Language and Cognition*, 11(3), 403-430. <https://doi.org/10.1017/langcog.2019.23>
17. **Villani, C.**, Lugli, L., Liuzza, M.T., & Borghi, A.M. (2019). Le sottocategorie dei concetti astratti: uno studio empirico. *Sistemi intelligenti*, 31(2), 235-252.
18. **Villani, C.** (2018). L'Embodied Cognition e la sfida dei concetti astratti. Un approccio multidimensionale. *Rivista Italiana di Filosofia e Psicologia*, 9(3), 239-253.

### ***Submitted articles, Preprints, Working papers***

19. Bolognesi, M. M., Collacciani, C., Ferrari, A., Genovese, F., Lamarra, T., Loia, A., ... & **Villani, C.** (2024). Word Ladders: A mobile application for semantic data collection. Preprint: [osf.io/preprints/psyarxiv/ryme7](https://osf.io/preprints/psyarxiv/ryme7)
20. **Villani C.**, Boux I.P., Pulvermüller F., & Tomasello R. (under review). The time course of speech act recognition conveyed by speech prosody: A gating study.
21. **Villani C.**, De Muynck G., Borghi A.M., Lugli L., & Winter B. (under review) Open hands, large numbers: Manual gestures influence random number generation. Pre-registration: <https://doi.org/10.17605/OSF.IO/J7EU5>
22. Lamarra T., **Villani C.**, & Bolognesi M. (under review). Specificity effect in abstract/concrete categorization task.
23. Mazzuca, C., **Villani, C.**, Lamarra, T., Bolognesi, M. M., & Borghi, A. M. (under review). Abstractness impacts conversational dynamics and interactive alignment. Preprint: <http://dx.doi.org/10.2139/ssrn.4959796>
24. Lamarra, T., **Villani, C.**, Mazzuca C., Borghi, A.M., & Bolognesi M. (in preparation). How does sentence specificity shape uncertainty and curiosity in conversational dynamics? OSF project: [https://osf.io/3m45k/?view\\_only=1e9360eafa2b4a5ebb7aad7ff146e797](https://osf.io/3m45k/?view_only=1e9360eafa2b4a5ebb7aad7ff146e797)
25. **Villani, C.**, Loia A., & Bolognesi M. (in preparation). Development of Abstraction in Children: Insights from a Words Ladders Task.

### **Invited lectures**

- 2024 **Traincrease H2020 Closing Conference**. Kazimierz Dolny, Poland, May 24-27.  
Title: Abstractness and Specificity in Social Interaction.
- 2024 **Psycholinguistic Coffee Seminar**, University of Edinburgh, UK, March 27.  
Title: Varieties of abstract concepts and their use in conversation.
- 2023 **PECoG meeting** organized by prof. Martin Fisher. University of Potsdam, Germany, June 02.  
Title: Numbers and Gestures: Exploring the Random Number Generation Task
- 2022 **Intensive Study Program Recognise Seminar: Legal reasoning and cognitive science**, online, January 31-February 4.  
Title: Embodied cognition and legal concepts.
- 2021 **Recognise Seminar**, online, March 30.  
Title: Is Justice Grounded? Legal Theory Meets Embodied Cognition.
- 2021 **Colloquium: Progress in Brain Language Research** organized by Brain Language Laboratory, Freie Universität Berlin, Berlin, Germany, February 3.  
Title: Varieties of abstract concepts. A multiple grounded perspective.
- 2019 **Workshop Abstract Concepts differ: Number, Emotion and Dangerous things**, organized by prof. Martin Fisher and Anna M. Borghi, Sapienza University of Rome, Rome, Italy, March 29.  
Title: Italian norms for different kinds of abstract concepts on many dimensions.
- 2018 **Brain Awareness Week Event**: Words and Meaning: theoretical and clinical application perspective, Aphasia Centre CIRP, Turin, Italy, March 15.  
Title: Pensare a “tazza” e “libertà”: diversi tipi di concetti?
- 2017 **Neural Mechanisms Workshop**, University of Turin, Turin, Italy, October 12-13.  
Title: L’Embodied Cognition e la sfida dei concetti astratti.

## Conferences Presentations

- 2024 AISC, Associazione Italiana di Scienze Cognitive. Rome, Italy, September 18-20.  
Talk: Lamarra T., **Villani C.**, Mazzuca C., Borghi A.M, Bolognesi M. *How does sentence specificity shape uncertainty and curiosity in conversational dynamics?*
- 2024 XPRAG.it, 5<sup>th</sup> Experimental Pragmatics in Italy Conference. Venice, Italy, September 26-27.  
Talk: **Villani C.**, Mazzuca C., Lamarra T., Bolognesi M., Borghi A.M. *Abstractness and Social Interaction: insights from sentences processing.*
- 2024 XPRAG.it, 5<sup>th</sup> Experimental Pragmatics in Italy Conference. Venice, Italy, September 26-27.  
Poster: Lamarra T., **Villani C.**, Mazzuca C., Borghi A.M, Bolognesi M. *How does sentence specificity shape uncertainty and curiosity in conversational dynamics?*
- 2024 AIP, Associazione Italiana di Psicologia Sperimentale. Noto, Italy, Sepember, 23-25.  
Poster: De Muynck G., Borghi A., **Villani C.**, Lugli L., Winter B. *Do Hand Gestures interact with Random Number Generation?*
- 2024 COGSCI, Cognitive Science Society. Rotterdam, Netherlands, July 24-27.  
Talk: Mazzuca M., **Villani C.**, Lamarra T., Bolognesi M., Borghi A.M. *Abstract Sentences elicit more Uncertainty and Curiosity than Concrete Sentences.*
- 2023 AISC, Associazione Italiana di Scienze Cognitive. Genova, Italy, December, 14-17.  
Talk: **Villani C.**, Rambelli G., Bolognesi M. *Exploring subordinate categories organization in Human and Artificial cognition.*
- 2023 ESLP, Embodied and Situated Language Processing Conference. Messina, Italy, September 29-30.  
Talk: **Villani C.**, Loia A., Bolognesi M. *The semantic content of concrete, abstract, specific and generic concepts.*
- 2023 ESLP, Embodied and Situated Language Processing Conference. Messina, Italy, September 29-30.  
Poster: Lamarra T., **Villani C.**, Bolognesi M. *Lexical decision and semantic processing latencies for words that vary in concreteness and specificity*
- 2023 XPRAG, Experimental Pragmatics. Paris, September., 20-22.  
Talk: Tomasello R., **Villani C.**, Boux I, Pulvermüller F. *The time course of speech act recognition conveyed by prosody: A gating study.*
- 2023 AIP, Associazione Italiana di Psicologia Sperimentale. Lucca, Italy, September, 18-20.  
Talk: **Villani C.**, Loia A., Bolognesi M. *Il contenuto semantico di concetti specifici, generici, astratti e concreti.*
- 2023 AIP, Associazione Italiana di Psicologia Sperimentale. Lucca, Italy, September, 18-20.  
Poster: Lamarra T., **Villani C.**, Bolognesi M. *Lexical Decision e semantic processing per parole che variano in concretezza e in specificità.*
- 2021 ESLP, Embodied and Situated Language Processing Conference. Online, September 20.  
Talk: **Villani, C.**, Orsoni, M., Lugli, L., Benassi, M., Borghi, A.M. *How do people talk about abstract and concrete concepts? A conversational paradigm.*
- 2021 CILC5, Conference on Interactive, Language & Cognition. Online, September, 15-19.  
Talk: **Villani, C.**, Orsoni, M., Lugli, L., Benassi, M., Borghi, A.M. *“Using abstract and concrete concepts in interactive contexts: A conversational study.*
- 2021 AIP, Associazione Italiana di Psicologia Sperimentale. Online, September, 9.  
Talk: **Villani, C.**, Orsoni, M., Lugli, L., Benassi, M., Borghi, A.M. *Conversazioni astratte e concrete: quali differenze.*
- 2021 AIP, Associazione Italiana di Psicologia Sperimentale. Online, September, 8.  
Talk: D'Ascenzo, S., **Villani, C.**, Scerrati., E., Lugli, L., Ricciardelli, P., Nicoletti, R. *Se indossi la mascherina seguirò il tuo sguardo! Come il COVID-19 ha influenzato la nostra attenzione sociale.*
- 2021 AIP, Associazione Italiana di Psicologia Sperimentale. Online, September, 10.  
Talk: Scerrati, E., D'Ascenzo, S., **Villani, C.**, Nicoletti, R., Lugli, L. *Effetti di priming affettivo*

*durante la pandemia: differenze individuali.*

- 2020 AIP, Associazione Italiana di Psicologia Sperimentale, Online, September 2-4.  
Talk: **Villani, C.**, D'Ascenzo, S., Borghi, A.M., Roversi, C., Benassi, M., Lugli, L. *Un'indagine sui concetti istituzionali. Il ruolo delle esperienze individuali nella rappresentazione concettuale.*
- 2019 AISc, Italian Association for Cognitive Sciences. Rome, Italy, December 11-13.  
Talk: **Villani, C.**, Lugli, L., Liuzza, MT., Nicoletti, R., Borghi, A.M. *Exploring the differences between kinds of abstract concepts: evidence with and interference paradigm.*
- 2019 AIP, Associazione Italiana di Psicologia Sperimentale. Milan, Italy, September 18-20.  
Talk: **Villani, C.**, Lugli, L., Liuzza, MT., Nicoletti, R., Borghi, A.M. *Esperienze sensorimotorie, linguistiche, e interogettive durante l'elaborazione di concetti concreti e astratti.*
- 2018 AISc, Italian Association for Cognitive Sciences. IUSS Pavia, Italy, December 17-19.  
Talk: **Villani, C.**, Lugli, L., Liuzza, MT., Borghi, A.M. *Linguistic, social and interoceptive experiences during the processing of abstract concepts.*
- 2017 AISc, Italian Association of Cognitive Science. Bologna, Italy, December 14-16.  
Talk: **Villani, C.**, Lugli, L., Liuzza, MT., Borghi, A.M. *Different Kinds of Abstract Concepts.*
- 2017 AIP, Associazione Italiana di Psicologia Sperimentale. Bari, Italy, September. 20-22.  
Talk: **Villani, C.**, Lugli, L., Borghi, A.M. *Concetti astratti: un dominio omogeneo o eterogeneo? Uno studio sulle differenze fine-grained delle sotto-categorie dei concetti astratti.*
- 2017 ESCoP, European Society for Cognitive Psychology. Potsdam, Germany, Sepember, 3-6.  
Poster: **Villani, C.**, Lugli, L., Borghi, A.M. *A taxonomy of Italian Abstract concepts.*