

## Research Group

### Gems and Jewels: History and Design (Hjdee)

**Reference year:**

2024

**Scientific Coordinator:**

JACAZZI DANILA / Full Professor / Departmento of Architecture and Industrial Design (DADI) / University of Campania Luigi Vanvitelli

**Group Members:**

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MORELLI Maria Dolores / Associate Professor / DADI / University of Campania Luigi Vanvitelli  
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CICALA Margherita / PhD / DADI / University of Campania Luigi Vanvitelli  
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DI GIROLAMO Felicia / PhD student / DADI / University of Campania Luigi Vanvitelli  
 DE CICCIO Angelo / PhD student / DADI / University of Campania Luigi Vanvitelli  
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**Description of research lines:**

***HISTORY AND DESIGN OF JEWELLERY***

During last years, the academic research in the field of jewellery has acquired a growing autonomy within the wider field of Fashion Design. The research path is basically composed of two closely related fields of study: History and Design. The first one is aimed at the disciplinary basis of the Jewel History, as an expression of the artistic cultures of past eras, and of the modern trends of goldsmith art, through the analysis of iconographic sources and products — preserved in Museums or in public and private collections —, the study of processing techniques related to materials.

The second one is related to Goldsmith Design that transforms the themes and characters of historical goldsmith art into innovative products, according to the social and cultural changes of Fashion. The goldsmith design also experiments with new generation shapes and materials in relation to production institutions and local traditions to develop original products on great interest issues, waste materials transformation, Fashion Design vs. goldsmith design.

According to multidisciplinary tools and methods, Drawing and Prototyping members integrate the research team, to study the patterns and geometric matrices behind the jewel design, also tending to the most innovative digital dissemination of goldsmith art and packaging.

*Coordinator Danila Jacazzi*

***GEOGIOIELLO design. Topology of Italian jewellery craft districts and experimentation with new uses of precious metals.***

The incipit of the research line is the study of the jewellery district in Italy through the cataloguing of museums, training places, companies and sales centres. The GEOGIOIELLO Research Group has promoted the foundation of the international magazine "Alkimya Magazine", born from an agreement with the Goldsmith Center OROMARE, GEM TECH, Officina Vanvitelli, the first scientific-popular magazine on the theme of the precious. The research activities also focus on the construction of a "Gold Community\_sistema of the goldsmith sectors in Italy", a form of systemic collaboration between the Italian goldsmith sectors and the University in order to develop high-quality training courses capable of defining professional profiles capable of contributing to innovation in jewellery companies. In addition, project actions have been carried out on interdisciplinary and transcultural themes, for example the project "A jewel for peace" with the University of Perugia and the non-profit association "Il Nodo"; the precious collection "CORallo/CORredo" for the research project "Fashion Alive"; the research "Bengems, multisensory jewels for well-being" in order to enhance the natural resources of the Mediterranean area, designing and creating multisensory jewels with the National Institute of Geophysics and Volcanology, the Department of Agriculture "Federico II", the Academy of Fine Arts Bologna-Ravenna, the Archaeological Park of Herculaneum, the Higher Institute of Musical Studies "G. Verdi", the Azienda D'Elia 1790, GEMTECH, Oromare,

the Coral Museum of Torre del Greco, CFP Galdus Orafi, Milan and with the members of the Historical Goldsmith's Society in London.

*Coordinator Maria Dolores Morelli*

**CONTEMPORARY JEWELLERY.** *Design-oriented meanings, technologies and processes*

The line of research affirms the legitimacy of contemporary jewellery as a significant form of cultural production that crosses the fields of design, fashion, art and industrial production. The insights investigate the meaning of ornament and its projection towards future scenarios defined by new needs and digital technologies. Unlike traditional jewellery, contemporary jewellery is characterised by a strongly innovative and design-oriented approach; it does not necessarily adopt precious materials, but rather is oriented towards an evolution of the product towards new aesthetics, meanings and processes. This line of research deals with an advanced segment of jewellery design that is internationally strategic for companies and organisations wishing to renew themselves. Thanks to the role of the web and technologies, this field is constantly expanding: the growth of the sector is witnessed by the exponential birth of international fairs and specialised events, web platforms, galleries, associations and museums. The innovation investigated is based on a different understanding of craftsmanship and production, through the hybridisation of skills of both a technical and intellectual nature, and whose explorations place their reasons for being in a semantic investigation of the object. The line of research delves into the international debate on new perspectives related to Industry 4.0 and digitisation in the field of ornamentation. Cooperations in this line of research include those undertaken with the AGC - Association for Contemporary Jewellery and the ADI - Association for Industrial Design.

*Coordinator Chiara Scarpitti*

**PRECIOUS GEOMETRIES**

The Precious Geometries line of research, framing itself within the disciplines of Design, focuses on aspects connected with both the spatial configuration of gems and their flat representation. In order to minimise the loss of material as a result of machining and at the same time obtain the best levels of brilliance, a preliminary geometric study is necessary to determine the layout of the section planes that guarantee an optimisation of both the compliance with the interaction with light and the quantity of material to be removed from the raw volume. If in common meaning the term stereotomy is connected to the cutting and working of building materials in architecture (stone, wood, metals), its etymology (from the Greek στερεος, solid and τομή, cut) refers to the cutting of solids in general and, therefore, can also be extended to precious stones. The studies conducted in the scientific field on the subject of precious geometries have also been extended in recent years to teaching activities through specific thematic workshops that have produced such significant results as to introduce this field among the lines of research already undertaken by this Research Group. More specifically, this line of research starting from the study of sources also in relation to the relationship between architectural and gemmological stereotomy, of the main shapes through the analysis and geometric breakdown also by surveying gems belonging to existing collections and of the control of shapes through geometric and photorealistic modelling software will tend to investigate different investigative directions, also by virtue of possible collaborations with stakeholders in the area.

*Coordinator Nicola Pisacane*

**PRECIOUS OF EASTERN EUROPE**

The research line "Precious of Eastern Europe" proposes an interdisciplinary methodological

approach focusing on the documentation, knowledge, analysis and digital reproduction of decorative artefacts of great value from Eastern Europe. The small size of jewellery, headgear, headbands, belts, objects of common use and the apparatuses typical of Eastern European fashion and tradition are the object of study linked to the events of personalities, travellers, leaders who characterised the social and geopolitical evolution of the Near East. Studies on the subject are complemented by the transdisciplinary skills of the study of textures, patterns and geometric matrices also through the use of innovative technologies for digital representation and audio-visual communication. International relations with several Eastern European Universities are active and a Collaborative Research Project on the topic is in progress.

*Coordinator: Luigi Corniello*

***MATERIALS AND TECHNOLOGIES for innovative applications in the jewelery sector***

In recent years, there have been several innovative developments in the field of jewelry materials, driven by advances in technology, sustainability and the desire for unique designs.

With the support of the equipment and personnel belonging to the Advanced Materials Lab, it is possible to identify topics to explore for the purposes of innovative applications:

-Ceramics with a geopolymer matrix to be created in the laboratory, moldable by casting in moulds, a sustainable and cheaper alternative to extracted stones.

-3D print in clay to create complex designs that are difficult or impossible to create with traditional methods. It also reduces material waste.

- Hybrid materials from the experimentation of traditional materials and modern materials such as acrylic, resin or ceramic to create unique and contemporary pieces.

- Wood and bamboo to offer a rustic and eco-friendly aesthetic.

These innovations reflect a broader trend in the jewelry industry towards sustainability, ethical sourcing and the adoption of new design and manufacturing technologies.

*Coordinator: Raffaella Aversa*

**Relationships with other research groups of the University of Campania L. Vanvitelli during the last three years:**

The activities carried out in the three-year period saw active interaction with other groups in the Department, in particular with:

- Design Sostenibile per il Made in Italy – SIDE;

- Advanced Materials Lab;

- 'Knowledge, valorisation and digital communication of cultural heritage';

- Development of products, processes and services through contemporary design theories and methods

- Contemporary scenarios for research and innovation in fashion design FA.RE. lab);

- LANDesignR | Local Area Network Design

- Officina Vanvitelli

**Participation in research projects during the last three years:**

**2023**

**Project title:** *Tangible and intangible heritage for knowledge, documentation and enhancement between 1750 and 1850*

**Scientific Coordinator:** Ornella ZERLENGA, Luigi CORNIELLO, Andrea MALIQARI

**Title of the Call:** Collaborative Research Project

**Abstract:** The research project between the Department of Architecture and Industrial Design of the University of Campania Luigi Vanvitelli (Italy) and the Polytechnic University of Tirana (Albania) proposes the study of the figure of Ali Pasha of Tepelena in its broader view. It analyses both the structures used for the defence of the territory and his marks left in the villages, as well as the rich set of jewellery currently preserved in Ioannina. The research focuses on the collection of graphic and iconographic sources narrating the conquered places, the survey of the major architectural structures that marked their course, the analysis of the current state of the structures and possible guidelines for restoration, the analysis of the jewellery and its gold comparison by historical periods.

**Involved persons:** Ornella ZERLENGA, Luigi CORNIELLO, Andrea MALIQARI, Danila JACAZZI, Riccardo SERRAGLIO, Vincenzo CIRILLO, Raffaella FIORILLO, Adriana TREMATERRA, Margherita CICALA, Rosa DE CARO, Angelo DE CICCIO, Felicia DI GIROLAMO, Rosina IADEROSA, Gianluca GIOIOSO, Fabiana GUERRIERO, Riccardo MIELE, Gennaro Pio LENTO, Denada VEIZAJ, Andronira BURDA

**Partners:** Polytechnic University of Tirana (Albania)

**Project Status:** *in progress*

**Project submission/start/end date:** 01\09\2023- 31\12\2024

**Project title:** *"POT NEED" Class L4 Industrial Design*

**Scientific Coordinator:** Maria Dolores MORELLI, DADI

**Title of the Call:** MIUR, POT Orientation and Tutoring Plans 2023-2026

**Abstract:** NEED promotes design education with methods, processes and tools, responding to the needs of "a new lifestyle" through the empathic and technological relationship between nature and artifice. NEED is a place/laboratory structure for pupils, students, researchers and teachers, open to local stakeholders and aimed at transdisciplinary design education, to allow the construction of educational paths that strengthen skills, digital technologies and the construction of soft skills, strongly connected between School, University, Territory, Companies, Institutions with new educational opportunities thanks also to the training of teachers, improving digital skills using educational platforms; fostering self-assessment tools in manual and digital learning environments.

**Involved persons:** Caterina FRETTOLOSO

**Partners:** CUID Italian University Design Conference "NEED\_new empathic educational design" presented as part of the Orientation and Tutoring Plans for the three-year period 2021 – 2023 and having among its partners the Universities of PERUGIA, University of GENOA, University of SASSARI, University of "G. d'Annunzio" CHIETI-PESCARA, University of "Mediterranea" of REGGIO CALABRIA, Polytechnic of BARI, University of BOLOGNA, University of CAMERINO, University of FERRARA, Polytechnic of MILAN, University of Naples "Federico II", University of PALERMO, University of PARMA, University of Rome "La Sapienza", Polytechnic of TURIN, University of TUSCIA, University of FLORENCE.

**Project Status:** *funded*

**Project submission/start/end date:** 2023/2026

**Title of the project:** *The Design System in the territories of Southern Italy. Design and craftsmanship of excellence for the development of Made in Italy and the commitment of local knowledge (DeinSite).*

**Scientific coordinator:** Maria Dolores MORELLI



**Call title:** PRIN: RESEARCH PROJECTS OF RELEVANT NATIONAL INTEREST – Call 2022 Prot. 20229NW8M9 PI: Francesca TOSI (formerly Claudio GAMBARDELLA).

**Abstract:** The project proposes to create in the South of Italy a large container consisting of five Regional Museum Systems, both physical and virtual, each equipped with a company museum to be located in areas of high tourist value thanks to the presence of archaeological and historical areas, centers, marinas and so on, acting as a connector for the participating museums and companies, as already done for the Campanian System in Pompeii. In other words, a museum for contemporary design, conceived primarily as an exceptional place that displays and produces objects of independent Italian design, rigorously combined with high craftsmanship.

**Involved persons:** Daniela PISCITELLI, Francesca LA ROCCA, Simona OTTIERI

**Partners:** Simbola, Museoimpresa, Museo Madre, Plart, University of FLORENCE, University of Campania "Luigi Vanvitelli" (leader)

**Project Status:** *funded*

**Project submission/start/end date:** 2023-2025

**Project title:** *ResHaping made in ITALy (RHITA). Circular models for Italian fashion heritage and manufactures through digital inclusivity and conscious innovation.*

**Scientific coordinator:** Chiara Scarpitti

**Call title:** Bando PRIN PNRR 2022

**Abstract:** RHITA intends to: frame the landscapes of Italian fashion through human capital, education, the valorization of production; giving shape to Made in Italy fashion in a contemporary green and digital world; reshape an inclusive digital fashion system through a web 3.0 platform; create new collaborative and circular models through technology, conscious innovation and the enhancement of identity.

**Involved persons:** Elisabetta Benelli, Elisabetta Cianfanelli, Ornella Cirillo, Dylan Colussi (PhD), Mariagiovanna Di Iorio (PhD), Gabriela Fabro Cardoso (PhD), Caterina Fiorentino, Maria Luisa Frisa, Valeria Iannilli, Francesco Izzo, Roberto Liberti, Gabriele Monti, Patrizia Marti, Patrizia Ranzo, Venere Sanna, Maria Antonietta Sbordone, Chiara Scarpitti, Alessandra Spagnoli.

**Project status:** *funded*

**Project start and end dates:** 31.01.2023 / 31.12.2025

**Project title:** *GEA: Applicazione di geopolimeri per Architettura sostenibile: studio chemoreologico e termocinetico per lo sviluppo di formulazioni per tecnologie additive*

**Scientific coordinator:** Laura RICCIOTTI

**Call title:** Bando di Ateneo per il finanziamento di progetti di ricerca fondamentale ed applicata dedicato ai Giovani Ricercatori D.R. 509/2022

**Abstract:** The GEA project deals with optimizing geopolymers (inorganic-based polymer formulations) for their use as materials for 3D printing new housing units in sustainable buildings. The project is based on a solid applicative and functional philosophy structured in such a way as to apply a systemic and highly interdisciplinary approach which is not limited to addressing a sectoral scientific topic but considers the entirety of the experimental production system that it intends to develop, therefore covering topics that do not they involve only the aspects of the science and technology of materials but also those relating to the whole of which these new types of building structures will be part.

**Involved persons:** Proff. RICCIOTTI Laura, AVERSA Raffaella, BORRELLI Marino, IANNACE Gino, MUZZILLO Francesca, FRANCHINO Rossella, FRETTOLOSO Caterina, PISACANE Nicola

**Project status:** *funded*

**Project start and end dates:** 31.01.2023

**Project title:** *Zero Waste Fashion Training: a new international, cross- sector training approach for fashion*

**Scientific Coordinator:** Gisela Fortuna, Madrid

**Call title:** *Call 2023 Round 1, KA210 – ADU Small-scale partnerships in adult education, Programme Erasmus +*

**Abstract:** Through sustainable design models, the ZWF project partners aim to provide students with comprehensive tools to help address the complexity of sustainability issues, especially from the designer's perspective, and combine them into a holistic approach. We therefore propose an updated training program on sustainable design methodologies applied to fashion, in synchronous and asynchronous format, with the aim of increasing awareness on sustainability, based on academic and scientific tools committed to the development of a sustainable future. *umenti accademici e scientifici impegnati nello sviluppo di un futuro sostenibile.*

**Involved persons:** R. Liberti, M. Calabrò, O. Cirillo, C.C. Fiorentino

**Partners:** University of Campania Luigi Vanvitelli, Italia e Creamodite, Madrid, Spagna.

**Project status:** *funded*

**Project start and end dates:** 1/9/2023 – 31/08/2025

**Project title:** *Geopolimeri per l'eco-architettura: una ricerca chemio-reattiva e termocinetica per lo sviluppo di formulazioni stampabili in 3D - GEA*

**Scientific Coordinator:** dott.ssa Laura RICCIOTTI

**Call title:** Bando PRIN: Progetti di Ricerca di Rilevante Interesse Nazionale – Bando 2022 PNRR

**Abstract:** The GEA project deals with optimizing geopolymer (GP) formulations, through the alkaline activation of different types of aluminosilicate waste, for their use as materials, in the 3D printing of housing units in sustainable buildings. The GEA project aims to develop an innovative strategy to overcome the main limitations of a large-scale application of 3D printing of GP materials through a systemic and highly interdisciplinary approach. This innovative method allows for the recycling and reuse of different types of waste, which would represent a significant contribution to sustainable development towards the adoption of the "zero waste" principle.

**Involved persons:** Proff. RICCIOTTI Laura, AVERSA Raffaella, IANNACE Gino, FRANCHINO Rossella, FRETTOLOSO Caterina, PISACANE Nicola; dottoranda Salima Zerari

**Partners:** University of Campania "Luigi Vanvitelli", University "G. d'Annunzio" CHIETI-PESCARA

**Project status:** *funded*

**Project start and end dates:** 31.01.2023 / 31.12.2025

## 2022

**Project title:** *RESTANZA. New movable systems for smart/co-working taking advantage of life quality, sustainability and energy efficiency*

**Scientific Coordinator:** Antonio CIERVIO

**Call title:** Bando di Selezione per il Finanziamento di Progettidi Ricerca Fondamentale ed Applicata dedicato ai Giovani Ricercatori

**Abstract:** A renewable energy-based, self-sustaining in energy use, eco-friendly, modular and flexible in set-up, Prefabricated Movable Building (PMB) for smart/co-working will be designed;

a fullscale prototype will be realized and its field performance will be measured/analyzed while installed and operated in a selected suitable small village of the Caserta province of the Campania region (Italy). The PMB will be developed to optimize occupants' well-being, energy performance and integration of indoor environment with outdoor architectural/historical/landscape elements via innovative design methods (immersive virtual reality and dynamic simulation models). The project aims at 1) promoting the exploitation of renewable energy and energy-efficient systems via innovative design methods, 2) reducing environmental/ecological footprint associated to both building and transport sectors, 3) suggesting an alternative lifestyle combining tradition and modernity, 4) facilitating social/economic rebirth of small villages with a significant regenerative potential. The research activities will be performed by a multidisciplinary team (involving 3 Scientific Disciplinary Sectors ING-IND/11, ICAR/18, ICAR/13) thanks to the know-how and equipment of the RIAS laboratory [1] and the SENS i-Lab [2] of DADI. The project provides relevant environmental/social/territorial/economic impacts, together with significant results for engineers, architects, manufacturers of PMBs, scientific community and policymakers.

**Involved persons:** Antonio Ciervo, Luigi Maffei, Francesca Castanò, Maria Dolores Morelli, Raffaella Marzocchi, Samiha Boucherit

**Project Status:** *funded*

**Project submission/start/end date:** 08/07/2022

**Project title:** *Designing with More-than-Human. Phygital interactions and artifacts for a transdisciplinary and post-anthropocentric manufacture. (De+Human)*

**Scientific Coordinator:** Chiara SCARPITTI

**Call title:** University call for the funding of fundamental and applied research projects dedicated to young researchers

**Abstract:** Characterised by a dual nature - theoretical and applicative - the project aims at the laboratory and transdisciplinary experimentation of processes and products on the borderline between design, fashion, digital technologies and nature, with a view to raising awareness of the most urgent issues related to multi-species coexistence and environmental ecosystems.

**Project status:** *funded*.

**Project start and end dates:** 01.10.2022/12.12.2023

**Project title:** *Fashion Alive.*

**Scientific Coordinator:** Roberto LIBERTI

**Call title:** European Commission CREA-CULT 2021 Coop1

**Abstract:** The FASHION ALIVE project promotes sustainable practices in the fashion industry through the creation of events to involve a wider public and raise awareness on this issue. The FASHION ALIVE Project approach is supported by three different partners: on the one hand, CREAMODITE (Spain), UMINHO (Portugal) and UNICAMPANIA (Italy) will conceptualise and experiment the creation of sustainable fashion methods, where each partner will work on a specific innovative methodology. In parallel, XSENTRIK (Austria) will explore and envisage a digital and audiovisual strategy using technological tools (combination of video, 3D projections, video mapping software, sound, light and music created by artificial intelligence)

**Involved persons:** Ornella CIRILLO, Chiara SCARPITTI, Vincenzo CIRILLO, Alessandra AVELLA, Pasquale ARGENZIANO, Lorenzo CAPOBIANCO, Alessandra CIRAFICI, Caterina Cristino FIORENTINO, Gabriele PONTILLO, Giulia CERIANI SEBREGONDI, Danila JACAZZI, Antonella VIOLANO, Phs students: Silvestro DI SARNO, Valentina ALFIERI.

**Partners:** Creamodite Asociacion para la constitucion y reestructuracion de empresas de moda.



diseno y tecnologia (Madrid); Universidade do Minho (Lisboa); Università degli Studi della Campania Luigi Vanvitelli (Italy); Xsentrikarts platform for arts (Austria)

**Project status:** *funded.*

**Project start and end dates:** 2022/2024

**Project title:** *BENGEMS. Multisensory jewels with beneficial effects made with volcanic stones from the Mediterranean area.*

**Scientific Coordinator::** Maria Dolores Morelli

**Call title:** PRIN 2022

**Abstract:** The "BENGEMS" research in compliance with the "DNSH", in accordance with art. 17 of Regulation (EU) 2020/852, and the relevant EU and national environmental legislation, intends to enhance the natural resources of the Mediterranean area, designing and creating multisensory jewels with volcanic stones. These gems, in addition to reflecting the mineral characteristics of the area, can contain and eventually release a series of trace elements that would bring beneficial effects to humans. The research aims to compose precious artifacts capable of bringing well-being to the people who wear them by satisfying multiple needs: healthy, visual, tactile, auditory, in full respect of sustainability and the enhancement of the resources of the territory. To achieve this, the gems are collected without disfiguring the environment, analyzed in their hidden precious properties, enhancing them through an adequate media design that can also give users a pleasant musicality.

**Involved persons::** Morelli Maria Dolores Unicompania, Pappalardo Lucia, Cirillo Teresa Unina, Babini Paola Ababo, Storace Anna Maria Issm.

**Partners:** DADI, Università Degli Studi Della Campania "Luigi Vanvitelli", Istituto Di Igiene, Università Degli Studi Di Napoli "Federico II", Istituto Nazionale Di Geofisica E Vulcanologia, Accademia Delle Belle Arti Di Bologna, Istituto Superiore Di Studi Musicali "Giuseppe Verdi", Ravenna.

**Project status:** *not funded.*

**Date of submission/start, end of project:** 31/03/2022

## 2021

**Project title:** *GEO GEMS MEDITERRANEAN design to feel good Scientific*

**Scientific coordinator:** Maria Dolores Morelli

**Call title:** PRIN 2020 (Prot. 20205XWPJ4)

**Abstract:** "GEO GEMS MEDITERRANEAN design to feel good" promotes research between education and production through the study and production of valuable innovative artefacts that link the promotion of Mediterranean nature, cultural resources and craftsmanship, strengthening interactions between universities, research institutes and academies in order to encourage participation in initiatives under the European Union Research and Innovation Framework Programme.

**Involved persons:** Chiara Scarpitti, Lucia Pappalardo, Annamaria Storace, Paola Babini

**Partners:** Istituto Nazionale Geofisica e Vulcanologia, Accademia di Belle Arti di Ravenna, Istituto Superiore di Studi Musicali Giuseppe Verdi di Ravenna.

**Project status:** *positively evaluated / not funded*

**Project submission:** 26/01/2021

**Project title:** *[POTDESIGN educo/produco] Class L4 Industrial Design*

**Scientific Coordinator:** Sabina MARTUSCIELLO / **DADI Contact Person:** Maria Dolores MORELLI

**Call title:** MIUR, POT Orientation and Tutoring Plans 2017-2019

**Abstract:** The Plan provides for training activities aimed at directing school pupils towards university studies through workshops "for the recognition of skills and the development of vocations" and was drawn up thanks to the consolidated experience already gained in this sense for over a decade with the LANDesign® Project. The University of Campania Luigi Vanvitelli is the leader of the network formed by all Italian universities with active CCdSS in Class L4, 11 universities are in the Partnership Agreement, another 3 are in the Joint Scientific Actions. As Lead Partner Project, the orientation and tutoring activities of POTDESIGN also include coordination with the other POTs and PLS of the University.

**Involved persons::** MORELLI Maria Dolores, MUZZILLO Francesca, CARILLO Saverio, JACAZZI Danila, GAROFALO Maria Carmela, PAGANO Enrica

**Partners:** CUID Italian University Design Conference University of Florence Polytechnic of Turin, University of Palermo University of Camerino, University of Studies "G. d'Annunzio" Chieti-Pescara University of Perugia University of Rome La Sapienza University of Genoa Polytechnic of Bari Alma Mater Studiorum University of Bologna University of Ferrara

**Project status:** *funded*

**Date of submission/start/end of project:** Approved by MIUR Decree of 04.03.2019 /start, 3/12/2018/ end of project 20/11/2020 extended to 30/11/2021

**Project title:** *OPEN WORKING/SPACE FOR WORKING \_ Innovation 4.0 for adaptable and digitised street furniture design*

**Scientific Coordinator:** Alessandra CIRAFICI

**Call title:** PON\_ Innovative Doctorates with industrial characterisation a.y. 2020/2021 - CYCLE 36

**Abstract:** The project intends to propose solutions to make public spaces more suitable for work in the new dynamic dimension, also in the light of the Covid emergency, which has made it possible to rediscover open public spaces as productive, work, communication and meeting places in which to stay rather than transit.

**Involved persons:** ENSASE Ecole Nationale Supérieure de Architecture de Saint Etienne, Master EPAM Espace Public et Ambiance; MATALCO s.r.l.

**Project status:** *funded*

**Project start/end dates:** September 2020/2023

**Project title:** *PostDigital Manufacturing Processes. Body Hacking for Productive Systems.*

**Scientific Coordinator:** Chiara SCARPITTI

**Call title:** VALERE 2020 - UniCampania Vanvitelli

**Abstract:** The project, of a theoretical-applicative nature, has as its aim the industrial experimentation of advanced digital technologies on the borderline between design, technology, body and object. The research is divided into two macro-phases: Design and Prototyping and OpenWorkshops and Testing and aims at the construction of wearables and contemporary objects with a high speculative and technological content.

**Involved persons:** Patrizia RANZO, Rosanna VENEZIANO, Claudio LEONE. Assignee: Michela MUSTO.

**Project status:** *fundend*

**Project start/end dates:** 01/09/2020 - 31/08/2021

**Scientific products of the last three years:**

*10 scientific publications on Class A journals and/or indexed in the Scopus/WoS databases:*

2023

[1] ZERLENGA, O., CIRILLO, V., CICALA, M. (2023). Drawing, Shapes and Parametric Design of Rod and Node Architectural Structures. *Nexus Netw J* 25 (Suppl 1), 303–311 (2023). <https://doi.org/10.1007/s00004-023-00722-3> (CLASSE A).

[2] FRANZO, P., SCARPITTI, C. (2023). *Corpi multispecie e cura nel progetto | Designing multispecies bodies and care*. *Officina Journal* n.41/2023. (pp.5-9). (Open Access | Rivista Scientifica ANVUR). Treviso: Anteferma. Pubblicazione a stampa ISSN 2532-1218. Pubblicazione online ISSN 2384-9029.

[3] RANZO, P., SCARPITTI, C. (2023). *Postumano e destino della bellezza. | The Posthuman and the Destiny of Beauty*. in *Dune. Writings on Fashion, Design and Visual Culture*, Vol. 004 n. 001, Biosphere, dicembre 2023 (pp. 30-43). Flash Art Editions. ISSN 2705-0084

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[4] MORELLI M.D., DE FUSCO R.(2022). *Logomachia*. *OP. CIT.*, vol. 175, p. 19-26, ISSN: 0030-3305. (Open Access - Classe A).

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[6] SCARPITTI, C. (2022). *Perdere il corpo, riconquistare il corpo. Riviverlo attraverso il digitale e le nuove pratiche di rilevazione sensoriale*. In *Progetto Grafico* n.38 “Salvare” - Supplemento online. ISSN: 1824-1301

[7] AVELLA A. (2022). *Vestimenta drawing in use by the Romans. Toward an Archive of Pompeii clothing patterns*. *Convergências - Revista de Investigação e Ensino das Artes*, vol. XV (30), p. 135-145, ISSN 2184 0180. DOI: 110.53681/c1514225187514391s.30

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[8] AVELLA A. (2021). Sacred Architecture and Fashion Drawing. The late antique decorations in Cimitile as ideational traces for fashion design. In: Gambardella C., Cennamo C., Germanà M.L., Shahidan M.F., Boudah H. (Eds.), *Advances in Utopian Studies and Sacred Architecture*. Cham (Svizzera): Springer International Publishing. Pp. 277-286. Indicizzato Scopus: 2-s2.0-85101073819

[9] LIBERTI, R., GADDI, R., (2021). Culture, Fashion and Communication Design in Times of Emergency. Communication and Design Strategies for the Sustainable Improvement of the Fashion and Textile Production in the Indian Subcontinent. *PAD#20 Fashion and textile design reconstruction*. (pp. 259-281) ISSN 1972-7887

[10] SCARPITTI, C. (2021). *The Contemporary Jewelry Perspective. Meanings and evolutions of a necessary practice*. (pp. 59-76). *Journal of Jewellery Research – Volume 04-2021*. Loughborough University / Northumbria University. ISSN: 2516-337X.

*Additional 10 scientific products:*

2023

[1] 2023, D. JACAZZI, *Gemme e Gioielli, storia e design* in *Alkimiya mag*, rivista trimestrale, n. 1

Edited by: Oromare, Marcianise (CE), pp. 58-74. ISSN a stampa: 2974-9964. ISSN on line: 2975-030X

[2] 2023, D. JACAZZI, *Mosaici e micromosaici: una tecnica attraverso i secoli*, in *Micromosaico*, Edited by: ISHINSHA, Japan, pp. 6-7. ISBN: 978-4-910478-08-1

[3] 2023, D. JACAZZI, L. MELILLO, G. LUISO, *Tes/ori. Tessuti e ori negli affreschi del MANN*, in *I SAPERI DI EUMACHIA AL MUSEO ARCHEOLOGICO NAZIONALE DI NAPOLI. ANTICHI TESSUTI, NUOVI RACCONTI*, A cura di Alessandra Cirafici, Luigia Melillo, Hapax Editore Torino, pp. 120-140. ISBN 979-12-80188-15-1

[4] PISACANE N., ARGENZIANO P., AVELLA A. (2023). *Gems Geometry: From Raw Structure to Precious Stone*. In: AA.VV.(a cura di): Liang-Yee Cheng, *Lecture Notes on Data Engineering and Communications Technologies - ICGG 2022 - Proceedings of the 20th International Conference on Geometry and Graphics. LECTURE NOTES ON DATA ENGINEERING AND COMMUNICATIONS TECHNOLOGIES*, vol. 146, p. 497-508, Cham:Springer, ISBN: 978-3-031-13587-3, ISSN: 2367-4512

[5] SCARPITTI, C. (2023). *Postdigital fashion and jewellery: hybrid practices blending digital and physical matter*. (pp.14-23). In *Postdigital Fashion & Jewellery in the Making*. Volume in Collana "One Look Sguardi sulla Moda" #1/2023. (Open Access). Aversa: DADI Press. Pubblicazione online ISBN 978-88-85556-25-6

[6] PISACANE N., ARGENZIANO P., AVELLA A. (2023). *Modellazione parametrica delle gemme dall'Encyclopedie. Analisi geometrica e criticità morfologiche/Parametric Modeling of Gemstone from the Encyclopedie. Geometric Analysis and Morphological Problems*. In: (a cura di): M. Cannella A. Garozzo S. Morena, *Transizioni. Atti del 44° Convegno Internazionale dei Docenti delle Discipline della Rappresentazione/Transitions. Proceedings of the 44th International Conference of Representation Disciplines Teachers*. p. 1874-1895, MILANO: Franco Angeli, ISBN: 9788835155119, Palermo, 14-15-16 settembre 2023

[7] R. LIBERTI (2023), P. RANZO, R. VENEZIANO *Verso filiere produttive collaborative e sostenibili: la ricerca di Officina Vanvitelli per il made in Italy* .in *CPMC, Italian Leather Research Magazine*, volume XCIX, quadrimestrale 01/2023, ita/inglese, <https://ssip.it/magazine-cpmc/> ISSN 011-3034

[8] R. LIBERTI (2023), O. CIRILLO, C. C. FIORENTINO, *Le manifatture di Procida nelle trame della storia. Un approccio interdisciplinare all'heritage making*, in *IMG23 Atti del IV Convegno Internazionale e Interdisciplinare su Immagini e Immaginazione*, pp. 433/440, 6/7 luglio, Aquila, 2023, ed Publica, Alghero ISBN 978 88 99586 32 4

[9] R. LIBERTI (2023), A. VIOLANO, S. OTTIERI, M. CANNAVIELLO, *Technical And Creative Knowledge, Interdisciplinary Visions And Connecting Skills For Slow Fashion Industry: Sustainable Textile Dyeing Technologies And Capsule Collection Designn INTED2023 Proceedings 17th International Technology, Education and Development Conference*, pp. 2008-2018, IATED Academy, Valencia, Spagna, 6/8 marzo 2023 ISBN 978-84-09-49026-4

[10] FRANZO, P., SCARPITTI, C. (2023). *Corpi e Cura | Bodies and Care*. *Officina Journal* n.41/2023. (pp.1-102). (Open Access | Rivista Scientifica ANVUR). Treviso: Anteferma. Pubblicazione a stampa ISSN 2532-1218. Pubblicazione online ISSN 2384-9029.

**Relationships with international and national Companies, Institutions, Research Centres, Universities during the last three years:**

--Parco Archeologico di Ercolano  
- Museo del Corallo, Torre del Greco

- Museo Liverino, Torre del Greco
- Esa Saint-Luc Bruxelles, Bruxelles
- Okan Üniversitesi, İSTANBUL
- D'Elia Company 1790 2020- ITA Italian trade Agency
- Antonino DE SIMONE, Impresa storica 1830 2020
- Le Zirre, Napoli 2020- GENOS, gioielli
- GEMTECH.
- Centro Orafo OROMARE
- Museo della moda e del tessile - Fondazione Mondragone, Napoli
- Universidad de Palermo, Argentina
- Universidad Federal de Pernambuco, Brasil
- Scuola universitaria professionale della Svizzera italiana (SUPSI) Bachelor of Arts in Comunicazione visiva, Campus Mendrisio, Svizzera
- C.E.S.A.R. School, Recife, Brasile
- Universidade do Minho, Departamento de Engenharia Textil, Campus de Azurem, Guimaraes, Portugal
- Faculdade de Arquitetura Universidade de Lisboa, Portugal 2021 - Goenka University, New Dheli, India
- SDS Sustainable Design School (oggi Besign), Nizza
- Conservatoire des Arts et metiers multimedia Bamako, Mali
- Università do Minho, Escola De Engenharia, Departamento de Engenharia Têxtil 2020
- ICOMOS Italia
- Istituto Nazionale Geofisico e Vulcanologico
- SILAE- Foundation Italo-Latino-americana di Etnomedicina. 2020
- Accademia di Belle Arti di Bologna
- Accademia di Belle Arti di Ravenna
- Istituto Superiore di Studi Musicali "G. Verdi", Ravenna 2020
- Department of Pharmacy, University of Salerno,
- Università degli Studi di Firenze
- Università degli Studi di Genova, Scuola Politecnica
- Università degli Studi di Palermo | Dipartimento di Architettura
- Sapienza Università di Roma | Centro Interdipartimentale Sapienza Design Research
- Çankaya University, Faculty of Architecture, Ankara (TR)
- East China Normal University, School of Design, Shanghai (CN)
- Universiteti Politeknik i Tiranës (Albania)
- OKAN UNIVERSITY, İstanbul Okan Üniversitesi Tuzla Kampüsü Akfirat-Tuzla / İSTANBUL
- MiBAC Museo Storico - Archeologico di Nola nell'ambito del Progetto SA.V.A.GE. Gigli di Nola.
- Istituto Superiore di Studi Musicali "G. Verdi", Ravenna

**Collaborations with Consortia, Scarl or other Institutions participated by the University of Campania L. Vanvitelli during the last three years:**

2023-2026\_ Convenzione DADI -VESOI Convenzione per attività di ricerca tra il Dipartimento di Architettura e disegno industriale dell'Università della Campania "Luigi Vanvitelli" e VESOI  
 Responsabile scientifico: Maria Dolores Morelli, Sergio Sibilio Convenzione dicembre 2023.



2023-2026\_ Convenzione DADI - CNA

Convenzione per attività di ricerca tra il Dipartimento di Architettura e disegno industriale dell'Università della Campania "Luigi Vanvitelli" e CNA; Responsabile scientifico: Maria Dolores Morelli; Convenzione 24/03/2017 n°1.

2022-2023 Convenzione MANN-DADI (2022-2023): Progetto di ricerca nell'ambito della Convenzione per attività di ricerca tra DADI e MANN\_ Museo Archeologico Nazionale di Napoli: prot. 82120 del 01/06/2022.

2022

Assocoral, Torre del Greco - BCP, Banca di Credito Popolare, Torre del Greco -Istituto "F.Degni", Torre del Greco - Museo del Corallo di Torre del Greco – Museo del corallo ASCIONE, Napoli - Museo del corallo LIVERINO, Torre del Greco - Museo Archeologico Nazionale di Sperlonga - Accademia di Belle Arte di Ravenna - Istituto Galdus di Milano - Fondazione d'ELIA Company, Torre del Greco – Azienda del Corallo De Simone, Torre del Greco - Coscia Gioielli srl, Tarì Marcianise - Conservatoire des Arts et Metiers Multimédia Balla Fassaké Kouyaté di Bamaco - Sustainable Design School di Nizza - Aiap per il progetto Women in Design Award- ADI per ADI Design Index. Commissione Tematica ADI Design Index sulla Comunicazione. - Uni, Scrittura della Norma UNI sul design- IID International Institute for Information Design- World Bank Mali-Italy Facilitated Exchange Program. June 13 to 15, 2017.- MIUR gruppo di lavoro sul Design di cui all'articolo 1 del D.D.G. n. 278

2022- Convenzione di ricerca e Consulenza in conto terzi tra il Dipartimento di Architettura e Disegno Industriale e l'Associazione Chiaiolella Borgo Marinaro Procida per la partecipazione alle attività di Procida Capitale della Cultura 2022

date attività: 20 aprile 2022/ 31 dicembre 2022

Responsabile scientifico della Convenzione: Ornella CIRILLO

Gruppo di ricerca: Caterina Cristina FIORENTINO, Roberto LIBERTI

Descrizione delle attività di ricerca: la ricerca e la progettazione, finalizzate alla realizzazione di una mostra dal titolo "Fili d'Ombra, fili di luce" ha riguardato la ricerca storico critica, i processi progettuali di prodotto e di comunicazione delle pratiche di upcycling riferite alle produzioni artigianali locali in lino.

2022-2023 Convenzione di ricerca e Consulenza in conto terzi tra Dipartimento di Architettura e Disegno Industriale e COSMIND srl

date attività: 1° maggio 2022/ 1 maggio 2023

Responsabile scientifico della Convenzione: Roberto LIBERTI, Giovanni CIAMPI

Gruppo di ricerca: Gabriele PONTILLO, Silvestro DI SARNO, Chiara SCARPITTI

Descrizione delle attività di ricerca: Il cuore della convenzione è relativo al disegno e progetto della "capsule collection" di oggetti/gioielli/accessori in acciaio oggetto del presente accordo; in particolare saranno sviluppate diverse soluzioni progettuali verificate all'interno dell'insegnamento di Fashion Ecodesign 1, incardinato nel Corso di Laurea magistrale in Design per l'Innovazione, curriculum Fashion Ecodesign, sino alla creazione di una serie di prototipi con le stampanti 3D e macchinari specifici a disposizione della COSMIND srl che saranno presentati nell'ambito dell'evento LINEA PELLE 2022 presso FIERAMILANO RHO. Si valuterà la possibilità di utilizzare materiali innovativi per le collezioni oggetto di studio.

2021-2022 Azienda PROTOM Group SpA nell'ambito delle attività di ricerca PON "Ricerca e Innovazione" 2014-2020 di cui al D.M. n. 1062 del 10.08.2021, Azione IV.4 "Innovazione".

2021- A. Avella, Workshop tematico "Geometrie preziose. Di-segno di gemme e gioielli", 12-19- 26 Aprile 2021, Dipartimento di Architettura e Disegno Industriale, Università della Campania Luigi Vanvitelli e Gem - Tech Istituto Gemmologico di Marcianise con l'intervento del prof. F. Sequino (Direttore tecnico della Gem-Tech in Campania e docente di gemmologia all'International Gemological Institute di Anversa) dal titolo Il taglio delle gemme: l'eterno compromesso tra leggi fisiche e profitto economico.

2021

Lineapelle, Milano, Camera Nazionale della Moda Italiana, Ciro Paone Spa, (gruppo Kiton), Fondazione Isaia & Isaia, Kuvera group (Carpisa, Yamamay, Jaked), Fondazione Teatro San Carlo, Stazione Sperimentale Pelli, Cannella, Amina Rubinacci

#### **ISI Web of Science Subject Categories:**

- Medieval & Renaissance Studies
- History
- Communication
- Social Sciences, Interdisciplinary
- Humanities, Multidisciplinary
- Cultural Studies
- Women's Studies
- Management
- Art.
- Engineering, Manufacturing. (manufacturing processes for jewellery design)
- Materials Science, Multidisciplinary. (materials for jewellery design)

#### **Scientific-Disciplinary Sectors:**

- ICAR/18
- ICAR/13
- ICAR/17
- ING-IND/22
- ICAR/19

#### **Keywords:**

- Goldsmithing
- Jewels
- Gems
- Cameos
- History
- Design
- Fashion
- Drawing
- Territorial identities

- Material culture
- Materials and Technologies

**ERC Categories:**

- PE8\_10 Industrial design (product design, ergonomics, man-machine interfaces, etc.)
- PE8\_11 Sustainable design (for recycling, for environment, eco-design)
- SH1\_9 Competitiveness, innovation, research and development
- SH1\_10 Organization studies: theory & strategy, industrial organization
- SH3\_12 Communication and information, networks, media
- SH5\_4 Visual and performing arts, film, design
- SH5\_6 History of art and architecture, arts-based research
- SH5\_7 Museums, exhibitions, conservation and restoration
- SH5\_8 Cultural studies, cultural identities and memories, cultural heritage
- PE11\_1 Engineering of biomaterials, biomimetic, bioinspired and bio-enabled materials
- PE11\_2 Engineering of metals and alloys
- PE11\_3 Engineering of ceramics and glasses
- PE11\_4 Engineering of polymers and plastics
- PE11\_5 Engineering of composites and hybrid materials
- PE11\_9 Nanomaterials engineering, e.g. nanoparticles, nanoporous materials, 1D & 2D nanomaterials
- PE11\_10 Soft materials engineering, e.g. gels, foams, colloids
- PE11\_13 Metamaterials engineering
- PE11\_14 Computational methods for materials engineering