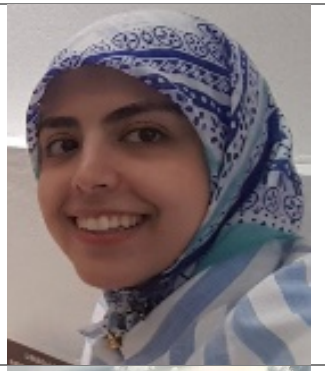
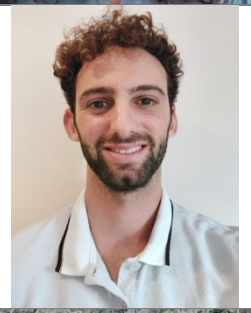
StoRIES Early-Stage Researcher Network

Name	Surname	Organization	Affiliation	Research Field	Research Project Title	Photo
Elham	**Abohamzeh**	Saarland University	Automation and Energy Systems	Thermal Energy Storage	Development and performance analysis of a seasonal thermochemical energy storage for buildings	
Riccardo	**Adinolfi Borea**	University of Bologna	Department of Industrial Engineering	Photovoltaics	Single-axis tracker routine optimization for bifacial photovoltaic modules	
Hossein	**Aghamohammadloo**	LUT School of Energy Systems	Laboratory of electricity markets, electrical engineering department	Hybrid energy storages	Hybrid energy storage participation in electricity markets	

Naime	**Ahmadi**	Aarhus University	Electrical Energy Technology	MG optimization, Energy management System, Hybrid energy storage system	Repower	
Shijil	**Anamkunnath Nediyirakkal**	Lulea University of Technology (Sweden)	Department of Civil, Environmental and Natural Resources Engineering	Electrochemistry / Battery and Supercapacitor Electrode	Mine tailings for battery and supercapacitor electrodes	
Irena	**Beloreshka**	Technical University of Sofia	Faculty of Management	Energy Storage	Research into and development of economic models for construction of battery-based electricity storage systems	

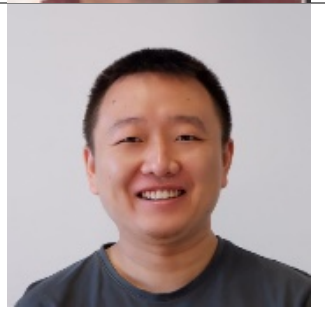
Sara	**Bergamasco**	Nanofaber	Nanofaber	Innovative Materials	Development new polymer hosts for all-solid-state electrolytes via electrospinning	
Svetlana	**Boshnakova**	Bulgarian Welding Society	University “Prof. D-r Asen Zlatarov” / Bulgarian Welding Society	Additive Manufacturing	High Wear Resistant Materials	
Marco	**Cornago**	University of Limerick	Bernal	Li-ion Solid-State Batteries		

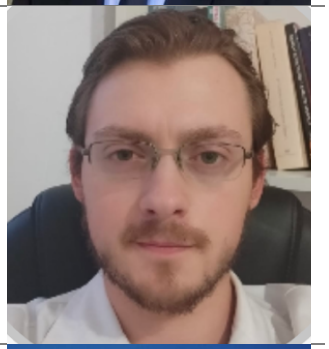
Sayan	**Das**	Karlsruhe Institute of Technology (KIT)	ITAS	Renewable energy, battery, economic assessment, LCA, Risk analysis, MCDM	Post Lithium Storage - Cluster of Excellence – Research topic: Sustainability	
Ahmad Reshad	**Delawary**	Tomas Bata University in Zlin	Chemistry	Develop bio-based material for energy storage systems	Carbonized Biopolymers for Energy Storage and Recycling	
Eleonora	**De santis**		La Sapienza ENEA CASACCIA	Lithium batteries	Manufacturing of scalable, solid-state, lithium battery prototypes based on ionic liquid separators	
Deepa Davison	**Edakalathur**	Iberian Energy Storage Research Center (CIIAE), Caceres, Spain	H_2 And Power to X Department	Solid Oxide Cells	Synthesis and processing technologies for proton conducting ceramic fuel cells and electrolysers	

Hüseyin	**Ersoy**	Karlsruhe Institute of Technology (KIT)	Institute for Technology Assessment and Systems Analysis (ITAS)	Power-to-Aluminium	Implementation of constructive sustainability assessment for an emerging energy storage technology	
Monica	**Giovannucci**	University of Bologna	Department of Chemistry “Giacomo Ciamician”	Redox Flow Batteries	Hybrid Energy Storage System at cell level: Vanadium Redox Flow Cell + Supercapacitor	
Konstantinos	**Ilia**	Northumbria University of Newcastle		Renewable Energy Storage and Smart Grids		
Mayank	**Joshi**	Politecnico di Torino and CNR-ITAE Messina	Dipartimento di Scienza Applicata e Tecnologia	Energy Storage	Sustainable materials for sodium-based battery	

Manish	**Kumar**	Karlsruhe Institute of Technology (KIT)	Helmholtz Institute Ulm for Electrochemical Energy Storage (HIU)	Life Cycle Sustainability Assessment	Prospective LCSA of emerging electrochemical energy storage technologies	
Silvia	**Lo Conte**	Sapienza University of Rome	Department of Chemical Engineering Materials Environment	High-temperature electrolyzers / fuel cells	Hydrogen production through molten carbonate electrolysis	
Costanza	**Luppi**	Alma mater studiorum-University of Bologna	Department of Electrical, Electronic, and Information Engineering	Solar Intermittency and Storage	National PhD Programme “Photovoltaics”	
Panagiotis	**Lykas**	National Technical University of Athens (NTUA)	Department of Thermal Engineering, School of Mechanical Engineering	Hybrid energy storage	Advanced energy storage systems from renewable energy sources for building and industrial applications	

Rodolfo	**Mero**	ENEA	TERIN	Energy	ECO2 - Production and use in industrial cycles of synthetic fuels from CO_2 and renewable electricity (G. Nigliaccio, R. Mero)	
Laura Sofia	**Mesa Estrada**	Karlsruhe Institute of Technology (KIT)	Institute for Technology Assessment and Systems Analysis (ITAS)	Technology Assessment	Multi-criteria decision analysis for sustainability assessment of energy technologies: a use case of energy storage	
Lakshimi Narayanan	**Palaniswamy**	Karlsruhe Institute of Technology (KIT)	Elektrotechnisches Institut (ETI), Team System Control and Analysis	Energy Management System, Hybrid Energy Storage System, Power to Heat	Energy management system for real-time optimization of a multi-energy system	
David	**Pérez Gallego**	University of Salamanca, Spain	Research Group on Energy Optimization, Thermodynamics and Statistical Physics	Thermal energy storage	E4f “Energy for Future” “Integrated Hybrid Solar Photovoltaic Thermal Collector Combined with Reversible Heat Pump”	

Paolo	**Pilati**	University of Bologna	DEI - Department of Electrical, Electronic and Information Engineering	Power Electronics	Design of a converter for green hydrogen production	
Fangmu	**Qu**	Technical University (TU) Darmstadt	Dispersive Solids	Battery	Sulfur-based composites embedded in SiOC/SiC ceramic matrix utilized as cathode materials for high-performance lithium sulfur batteries	
Philipp	**Rentschler**	Karlsruhe Institute of Technology (KIT)	Institute for Micro Process Engineering (IMVT)	Power-to-X	Transient operation of Power-to-X plants connected to intermittent renewable power sources in isolated networks	

Lukas	**Richter**	DBFZ Deutsches Biomasseforschungszentrum gemeinnützige GmbH	Thermo-chemical Conversion Department	Energy system modeling, Hybrid energy systems, cellular energy system	Use of solid biomass-based hybrid systems in the context of the cellular approach	
Markus	**Salmelin**	LUT-University	School of Energy Systems – Electricity Market Laboratory	Electrical Engineering	Quantifying energy storage requirements in large scale hydrogen production in Finland (On- and off-grid)	
Luigi Jacopo	**Santa Maria**	University of Limerick	Department of Chemical Science, Bernal Institute	Material Science	Development of graphite/Si anodes for high energy density lithium-ion batteries	
Syed Safeer Mehdi	**Shamsi**	University of Genova	Thermochemical Power Group	Carnot Batteries	Thermo-mechanical energy storage based on innovative energy cycles	

Jakob	**Smith**	Technische Universität Wien (TU Wien)	Institute of Applied Synthetic Chemistry	Chemistry	Low temperature thermochemical energy storage for industrial applications	
Jonas	**Sprengelmeyer**	Karlsruhe Institute of Technology (KIT) / Volkswagen	Institute for Technology Assessment and Systems Analysis (ITAS)	Sustainability Assessment	Development of methods for holistic technology assessment and the derivation of technology roadmaps	
Leon	**Tadayon**	Saarland University	Chair of Automation and Energy Systems	Large-scale Battery Storages	Optimal operation of Large-scale Battery Energy Storage Systems in German Spot and Balancing Power Markets	

Cheng	**Xu**	Karlsruhe Institute of Technology (KIT)	Helmholtz Institute Ulm	Energy storage	Highly efficient aqueous aluminum-air batteries