LUCAS RENCKER

University of Surrey, Guildford, UK

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EXPERIENCE

PhD candidate/Marie Curie Early-Stage Researcher October 15 - Present
Centre for Vision, Speech and Signal Processing (CVSSP), *University of Surrey*, Guidford, UK
MacSeNet Marie Skłodowska-Curie Inovative Training Network
Research topic: Sparse representations for audio restoration and inpainting
Research interests: sparse decomposition, dictionary learning, matrix factorization, statistical learning, optimization, inverse problems
Supervisors: Dr. Wenwu Wang, Prof. Mark Plumbley

Visiting researcher October 15 - Present
Cedar Audio Ltd, Cambridge, UK
Visiting researcher (3 days/month), as part of an industrial placement
Real life applications of signal processing techniques in the industry
Research topic: Dictionary learning for digital audio restoration
Supervisor: Dave Betts

Visiting researcher April 17 - July 17
SIERRA-team, INRIA, Paris, France
Research topic: Dictionary learning for signal declipping
Supervisor: Dr. Francis Bach

Research student April - September 15
International Audiolabs, Fraunhofer IIS, Erlangen, Germany
Topic: Transient noise detection and reduction for speech enhancement

EDUCATION

Masters degree in Signal and Image Processing September 15
Ecole Centrale de Marseille, France
Advanced courses in statistical signal and image processing

Masters of Engineering September 15
Ecole Centrale de Marseille, France
General engineering education (maths, electronic engineering, computer science)

Academic semester in Telecommunication Engineering March - July 14
Politecnico di Torino, Turin, Italy

Classe préparatoire aux grandes écoles September 10 - August 12
Institut Sainte-Marie, Antony, France
Intensive maths and physics courses, preparing for competitive national exams

SKILLS

Programming Languages: MATLAB, Python.
Software: Linux, Git, LaTeX
Languages: English, French (fluent), German, Italian (basic level)

INTERESTS

Music, photography, cinema, travelling