LUCAS RENCKER

University of Surrey, Guildford, UK lucas.rencker@surrey.ac.uk

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, linear and nonlinear inverse problems (denoising, inpainting, declipping, dequantization)

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 - 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: Impulsive 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 (advanced level), C/C++ (basic level)

Software: Unix, Git, LaTeX

Languages: English, French (fluent), German, Italian (basic level)

INTERESTS

Music, photography, cinema, travelling