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## Applications of paramagnetic NMR spectroscopy for protein research

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# LIST OF PUBLICATIONS

**Lescanne M.**, Skinner SP., Blok A., Timmer M., Cerofolini L., Fragai M., Luchinat C., Ubbink M. (2017) *Methyl group assignment using pseudocontact shifts with PARAssign*. J. Biomol. NMR DOI: 10.1007/s10858-017-0136-3

**Lescanne M.**, Ahuja P., Blok A., Timmer M., Akerud T., Ubbink M. (2018) *Methyl group reorientation under ligand binding probed by pseudocontact shifts*. (accepted for publication in J. Biomol. NMR)

Castañeda C., **Lescanne M.**, Timmer M., Ubbink M., Fushman D., *Flexibility in ubiquitin dimer probed by paramagnetic RDC*. (in preparation)

# CURRIVULUM VITAE

Mathilde Lescanne was born the 2<sup>nd</sup> of April 1989 in Bordeaux, France. After her baccalauréat received with honours and two years of highly selective classes, Mathilde moved to Grenoble to start an engineering school. She finally completed a Master in physics with mention in life sciences. She discovered NMR during her first master internship with Dominique Marion at the Institute of Structural Biology of Grenoble where she worked on non-linear sampled NMR data processing. For her second master internship, still under the supervision of Dominique Marion, she worked on exchange phenomenon in a half-mega Dalton protein studied by liquid-state NMR. After graduating in 2013, she moved to Leiden to start her PhD with Prof. Dr. Marcellus Ubbink in the Macromolecular Biochemistry group of Leiden Institute of Chemistry. She worked on applications of paramagnetic NMR for protein research. She discovered there how to work in the wetlab and how to monitor a spectrometer. Within the European pNMR program, she had the opportunity to go abroad for two secondments. The first one took place in Florence, Italy, where she stayed two months to produce <sup>13</sup>C-methyl group labelled proteins. The second one took place in AstraZeneca in Goteborg, Sweden, and lasted one month, to work on ligand/protein interaction probed by  $\Delta$ PCS. The results of these projects are described in this thesis.



