

## ANDERE MÖGLICHEN MSc/BSc ARBEITEN IN BIOGEOCHEMIE/UMWELTGEOWISSENSCHAFTEN

- Long-term variability of and controls on nutrient availability in the mixed layer of Lake Lugano
- Past and present importance of CH<sub>4</sub> as source of carbon in the food web of an alpine lake
- Effects of nutrient availability on methane production in cyanobacteria
- A comparative study of sediment-porewater collection methods – Assessing pressure effects during inorganic and organic solute extraction from interstitial waters
- Organic geochemical constraints on the origin of low- $\delta^{13}\text{C}$ , recalcitrant suspended organic matter in Lake Lugano
- $\delta^{13}\text{C}$  and  $\delta^{15}\text{N}$  constraints on photosynthetic pathways and food web dynamics in meromictic Lake Cadagno
- Species-specific  $\delta^{15}\text{N}$  values of lacustrine algae – Combining flow cytometry and IRMS
- Testing the nitrification potential by methanotrophic bacteria in a lacustrine benthic nepheloid layer
- Isotope signatures of N<sub>2</sub>O production by methanotrophic nitrification
- Isotope effects during anammox and environmental controls
- N<sub>2</sub>O production by autoxidation of hydroxylamine (NH<sub>2</sub>OH)
- N isotope fractionation by lacustrine cyanobacteria associated with the growth on N<sub>2</sub> gas
- Turbidites in Lake Lugano: Impact on benthic nitrogen and phosphorous exchange processes
- The N isotopic composition of nitrite produced during algal uptake of nitrate in lakes – explaining the mechanisms of primary nitrite maxima in lacustrine settings
- N<sub>2</sub>O consumption in the water column of Lake Lugano
- Importance of NO<sub>2</sub><sup>-</sup> oxidation in the anoxic layer of Lake Lugano

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