## High Sensitivity Piezomagnetic Force Microscopy for Quantitative Probing of Magnetic Materials at the Nanoscale

Qian Nataly Chen <sup>1,\*</sup>, Feiyue Ma <sup>1,\*</sup>, Shuhong Xie <sup>2</sup>, Yuanming Liu <sup>1</sup>, Roger Proksch <sup>3</sup>, and Jiangyu Li <sup>1,†</sup>

- 1. Department of Mechanical Engineering, University of Washington, Seattle, WA 98195-2600, USA
- 2. Faculty of Materials, Optoelectronics and Physics, and Key Laboratory of Low Dimensional Materials & Application Technology of Ministry of Education, Xiangtan University, Xiangtan, Hunan 411105, China
- 3. Asylum Research, 6310 Hollister Ave., Santa Barbara, CA 93117, USA

## **Supporting Information**

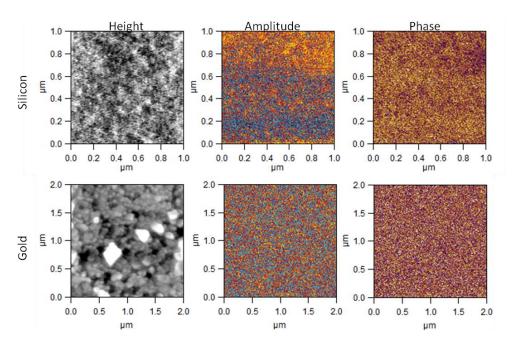


Fig. S1 PmFM probing of silicon and gold-coated silicon, showing featureless mappings.

<sup>\*</sup> These authors contributed equally to the work.

<sup>&</sup>lt;sup>†</sup> Author to whom the correspondence should be addressed to.

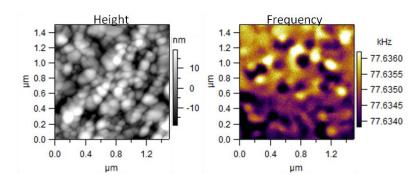


Fig. S2 MFM of CFO film, showing limited contrast and spatial resolution.