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Data Literacy Education Design Based on Needs of Graduate Students in University of Chinese Academy of Sciences

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Abstract. In the new data-intensive research environment, research data is an important part of scientific findings and every researcher will face sophisticated data management problems during their research life. Solving these data problems requires researchers and students have new skill sets and competencies, which ensure their outputs are accessible, discoverable and reusable. Using the online questionnaire survey method, we conducted a data literacy survey among 59 graduate students of life science in University of Chinese Academy of Sciences (UCAS). The current situation and needs of graduate students' data literacy competences are revealed. On the basis of demand investigation, the data literacy education model of teachers, students and curriculum is constructed, the education content is based on research data lifecycle and includes three levels of learning modes. In addition, the data literacy education implementation scenes for graduate students in UCAS were also designed, and provide evidence for libraries to implement data literacy education services better.

Keywords: data literacy, research data management, data literacy education, graduate students