

ZMATH 2016f.00108

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The Berkeley summer research program for undergraduates: one model for an undergraduate summer research program at a doctorate-granting university.

Peterson, Mark A. (ed.) et al., Directions for mathematics research experience for undergraduates. Based on the conference “New directions for mathematics research experiences for undergraduates”, Mount Holyoke College, South Hadley, MA, USA, June 21–22, 2013. Hackensack, NJ: World Scientific (ISBN 978-981-4630-31-3/hbk; 978-981-4630-33-7/ebook). 73-98 (2016).

Summary: Historically, mathematics REUs have mainly been offered by institutions that specialize in undergraduate education. The purpose of this article is to offer one model for an undergraduate summer research program at a large research university by communicating and discussing the details of the UC Berkeley Topology, Geometry, and Operator Algebras Summer Research Program for Undergraduates. The author helped organize and design this program, and twice served as the research group mentor for the symplectic geometry group.

Classification: B40 D35 D45

Keywords: undergraduate research; summer research programs

doi:10.1142/9789814630320.0005