

**UNDERGRADUATE THESIS**

**OPTIMIZING CONDITION OF PINEAPPLE LEAF FIBER DELIGNIFICATION FOR  
DEVELOPING ACID-FREE PAPER SUITABLE FOR HISTORICAL OBJECTS  
CONSERVATION**

***OPTIMASI KONDISI DELIGNIFIKASI SERAT DAUN NANAS UNTUK  
MENGEMBANGKAN KERTAS BEBAS ASAM UNTUK KONSERVASI BENDA  
BERSEJARAH***



CHRISTOPHER ALMA SURANTO

20/454550/PA/19581

**INTERNATIONAL UNDERGRADUATE PROGRAM IN CHEMISTRY**

**CHEMISTRY DEPARTMENT**

**FACULTY OF MATHEMATICS AND NATURAL SCIENCES**

**UNIVERSITAS GADJAH MADA**

**YOGYAKARTA**

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Submitted to fulfill one of the requirements to obtain a degree in  
Bachelor of Science in Chemistry



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RATIFICATION PAGE

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and has been defended in front of the Examiner Team

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