



UNIVERSIDAD NACIONAL DE COLOMBIA  
SEDE BOGOTÁ

**FACULTAD DE INGENIERÍA**  
**Vicedecanatura Académica**  
**POSGRADOS**

**PROPOSAL SUBMISSION**

DOCTORAL THESIS: ☒ MASTER THESIS: ☐  
MASTER FINAL WORK: ☐ SPECIALIZATION FINAL WORK: ☐

1. **BIDDER:** Robinson Andrés Jaque Pirabán **ID:** 80190790
2. **PROGRAM:** Philosophy Doctoral in Computer Science and Systems Engineering
3. **ADVISOR:** Fabio Augusto González Osorio  
**DEPARTMENT:** Computer Science and Industrial Engineering
4. **TITLE:** Kernel Tensor Factorization
5. **AREA:** Computer Science
6. **LINE OF RESEARCH:** Machine Learning
7. COMMENTARY WITH ADVISOR APROVAL

8. BIDDER SIGNATURE

9. SIGNATURE OF ADVISOR