

**Co-author declaration**

This declaration should describe the research contribution of both the candidate and each of the co-authors for each article constituting the thesis. For each article, the declaration should be completed and signed by the candidate and co-author(s).

**Name of PhD candidate: Kauê de Sousa**

**Article nr.: 04**

**Title: Data-driven decentralized breeding increases genetic gain in a challenging crop production environment**

**Co-author 1: Matteo Dell’Acqua (Principal Investigator on behalf of all co-authors)**

**Co-author 2:**

**Co-author 3:**

**Co-author % contribution:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Project idea | Planning | Data collection | Data analysis | Writing |
| PhD candidate | 12.5 | 25 | 25 | 40 | 40 |
| MDA | 12.5 | 25 | 25 | 40 | 40 |
| Other co-authors | 75 | 50 | 50 | 20 | 20 |
| Sum | 100 | 100 | 100 | 100 | 100 |

**I agree to the above description:**

**………………………………………**

**PhD candidate:**

**……………………………………… ……………………………………… ………………………………………**

**Co-author 1 Co-author 2 Co-author 3**