STATISTICS & PROBABILITY – EXAM 03 PRE-REGISTRATION

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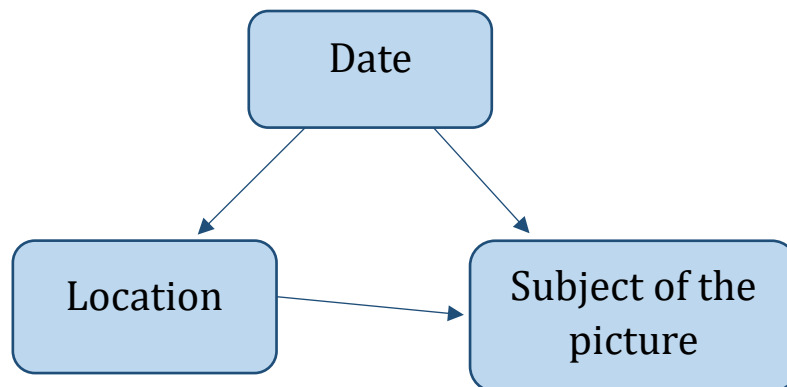**Laboratory :** Université Paris Sciences & Lettres
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Problematic : Does the location of the pictures from *The Planetary Archives* impact their subject ?

Dataset : « archives-de-la-planete » dataset, Hauts-de-Seine Department

Directed Acyclic Graph :

Predictions :
- P1. Africa presents more picture portraying people.
- P2. The earlier the pictures were taken the more it showcases people.
- P3. Pictures from Africa were taken earlier in the project.

Models :
- P1 + P2 – <u>Multivariate linear regression</u>
  Subject of the picture ~ Date + Location
- P3 – <u>t-test</u>
  Location ~ Date