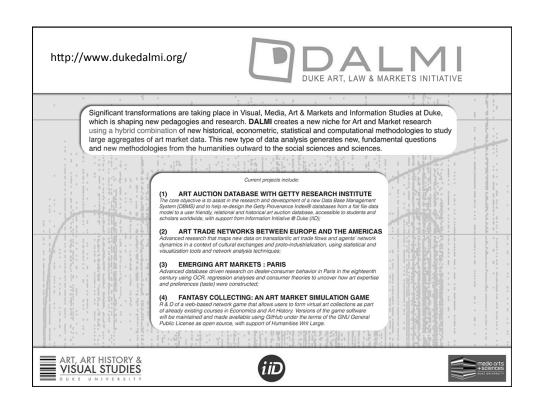
## **Data Expeditions**

STA101 Data Analysis and Statistical Inference

# Paintings in Paris 1764-1780

Hilary Coe Cronheim & Sandra van Ginhoven iiD Research Fellows Duke Art, Law & Markets Initiative (DALMI)





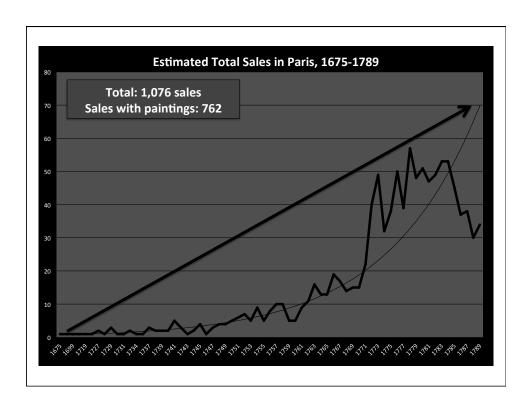
## The Auction Market in 2014

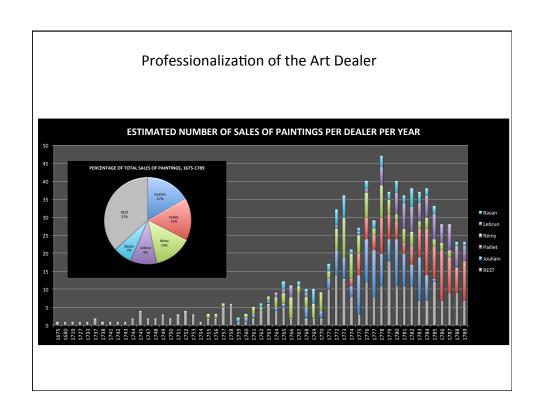
# <u>Sotheby's Old Master & British Paintings Evening Sale Soars</u> <u>over Estimate</u>

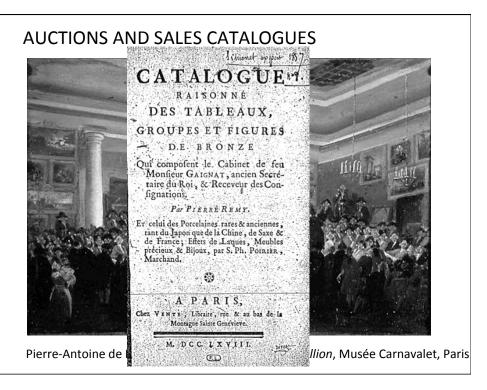
# The Auction Market in the Eighteenth-Century Paris

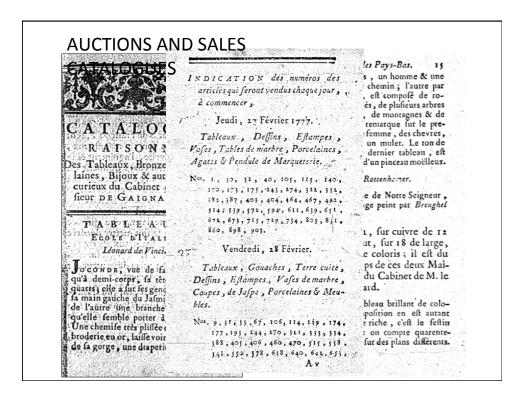


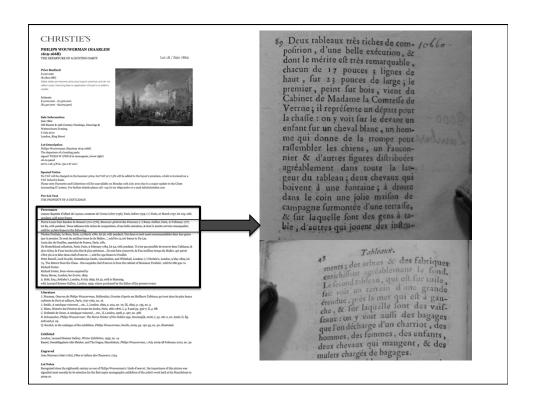
Pierre-Antoine de Machy, *Public Sale at the Hôtel Bullion*, Musée Carnavalet, Paris













Philip Wouwermans (1619-1668), *The Departure of a Hunting Party*, oil on panel, 52 x 67 cm.



Two paintings very rich in composition, of a beautiful execution, and whose merit is very remarkable, each 17 inches 3 lines high, 23 inches wide; the first, painted on wood, comes from the Cabinet of Madame la Comtesse de Verrue; it represents a departure for the hunt: it shows in the front a child on a white horse, a man who gives the horn to gather the dogs, a falconer and other figures nicely distributed across the width of the painting; two horses drinking from a fountain; on the right in the corner a lovely country house topped by a terrace, on which people are at the table, others who play instruments; trees and **fabriques** pleasantly enrich the background.

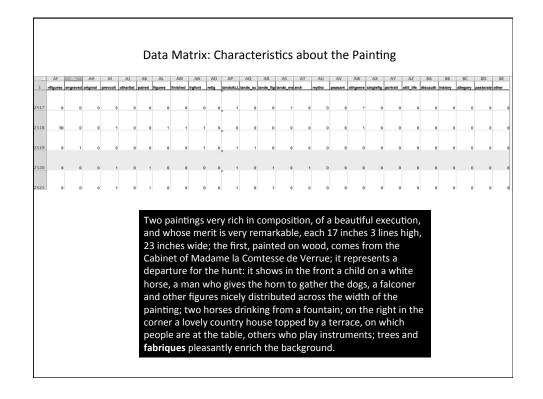
89 Deux tableaux très riches de composition, d'une belle exécution, & dont le mérite est très remarquable, chacun de 17 pouces 3 lignes de haut, sur 23 pouces 3 lignes de haut, sur 23 pouces de large; le premier, peint sur bois, vient du Cabinet de Madame la Comtesse de Verrue; il représente un départ pour la chasse : on y voit sur le devant un enfant sur un cheval blanc, un homme qui donne de la trompe pour rassembler les chiens, un Fauconnier & d'autres sigures distribuées agréablement dans toute la latgeur du tableau; deux chevaux qui boivent à une sontaine; à droite dans le coin une jolie maison de campagne surmontée d'une terrasse, & sur laquelle sont des gens à table, d'autres qui jouent des instru-

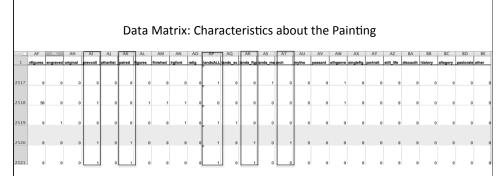
Tableaux.

ments; des arbres & des fabriques entchiffent agréablement le fond, entchiffent agréablement le fond, entchiffent agréableau, qui est fur toile, Lescondrableau, qui est au grande étendue, près la mer qui est à gandetendue, voir aussi des bagages que l'on décharge d'un charriot, des hommes, des femmes, des enfants, deux chevaux qui mangent, & des mulets chargés de bagages.

|  | A         | В     | C   | D      | E    | F  | G    | Н               |             |          | K     | L  | M                  | N            | 0           | P                  |         |  |
|--|-----------|-------|-----|--------|------|--|------|-----------------|-------------|----------|-------|--|--------------------|--------------|-------------|--------------------|---------|--|
| 1  | name      | sale  | lot | dealer | vear |  |      | school_<br>pntg | diff origin | price    | count | subject  | authorstandard     | artistliving | authorstyle | author             | winn    |  |
| 2517   | R1777-86  | R1777 | 86  | R      | 1777 |  | D/FL | D/FL            | 0           |          |       | 2 femmes, enfants,<br>paysage vu à travers<br>une arcade |                    |              | 0 n/a       | Corneille Bega     | Lebi    |  |
| 2518   | R1777-87  | R1777 | 87  | R      | 1777 | D/FL   | D/FL | D/FL            | 0           | 12,000.0 | 1     | Course du hareng   | Wouwerman, Philips |              | 0 n/a       | Philippe Wouwerman | a Donj  |  |
| 2519   | R1777-88  | R1777 | 88  | R      | 1777 | D/FL   | D/FL | D/FL            | 0           | 8,000.0  | ,     | Paysage sablonneux                                       | Wouwerman, Philips |              | 0 n/a       | Philippe Wouwerman | ı: Lami |  |
| 2520   | R1777-89a | R1777 | 89  | R      | 1777 | D/FL   | D/FL | D/FL            | 0           | 5,300.0  | 1     | Départ pour la chasse                                    | Wouwerman, Philips |              | 0 n/a       | Philippe Wouwerman | ı: Lanç |  |
| 2521   | R1777-89b | R1777 | 89  | R      | 1777 | D/FL   | D/FL | D/FL            | 0           | 5,300.0  | 1     | Déchargement d'un chariot, estran                        | Wouwerman, Philips |              | 0 n/a       | Philippe Wouwerman | ı Lanç  |  |
| name dealer year econindex Origin_author  Origin_cat School_pntg Diff_orogin price Authorstandard artistliving Authorstyle |           |       |     |        |      | unique ID of painting Joullain (J), Lebrun (L), Paillet (P), Remy (R) 1764-1780 price economic index (agricultural) A (Austrian), D/FL (Dutch/Flemish), F (French), G (German), I (Italian), S (Spanish), X (Unknown) D/FL, F, I, O (Other masters) D/FL, F, I, X if origin_author differs from origin_cat (1); otherwise (0) price fetched at auction (sales price in livres) name of artist (starndardized) if living artist (1); deceased (0) |      |                 |             |          |       |  |                    |              |             |                    |         |  |

|  | R  | S                 | T        | U  | V                 | W         | X          | Y           | Z       | AA AB              | AC      | AD       | AE  | AF       | AG       | AH      |
|--|--|-------------------|----------|--|-------------------|-----------|------------|-------------|---------|--------------------|---------|----------|-----|----------|----------|---------|
| 1  | winningbidder                              | winningbiddertype | endbuyer | Interm   | type_interm<br>ed | Height_in | Width_in S | urface_Rect | Diam_in | face_Rn<br>d Shape | Surface | material | mat | quantity | nfigures | engrave |
| 516  | Feuillet                                   | D                 | D        |  | 0                 | 16        | 20         | 320         |         | squ_rect           | 320     | toile    | t   |          | 1        | 0       |
| 517  | Lebrun, Jean-Baptiste-<br>Pierre           | D                 | D        |  | 0                 | 13.25     | 11         | 145.75      |         | squ_rect           | 145.75  | bois     | b   |          | 1        | 0       |
| 518  | Donjeux, Vincent                           | D                 | D        |  | 0                 | 23        | 29.25      | 672.75      |         | squ_rect           | 672.75  | toile    | t   |          | 1        | 50      |
| 519  | Lambert, John<br>(Chevalier Lambert)       | С                 | С        |  | 0                 | 23        | 30         | 690         |         | squ_rect           | 690     | toile    | ·   |          | 1        | 0       |
| 520  | Langlier, Jacques for<br>Poullain, Antoine | DC                | С        |  | 1 D               | 17.25     | 23         | 396.75      |         | squ_rect           | 396.75  | bois     | b   |          | 1        | 0       |
| 521  | Langlier, Jacques for<br>Poullain, Antoine | DC                | с        |  | 1 D               | 17.25     | 23         | 396.75      |         | squ_rect           | 396.75  | toile    | t   |          | 1        | 0       |
| 522  | Choiseul-Praslin,<br>Comte de              | С                 | c        |  | 0                 | 6.5       | 9.25       | 60.125      |         | squ_rect           | 60 125  | culvre   | c   |          | ,        | 0       |
| Winningbidder Winningbiddertype Endbuyer Interm Type_intermediary Height_in Width_in Diam_in Shape |  |                   |          | name of winning bidder D (dealer); C (collector); E (expert); B (buyer); X (unknown) end buyer category from winning bidder type 1 if intermediary purchased the painting intermediary category from winning bidder type Height in inches Width in inches Diameter in inches (if Shape = round or oval) Shape of painting (squ_rect, round, oval, miniature) |                   |           |            |             |         |                    |         |          |     |          |          |         |





prevcoll: if previous owner is mentioned

paired: if painting is sold or suggested as a pairing with another

landsALL: if painting is described as a landscape

lands\_figs: if description mentions figures in a landscape

arch: if architectural constructions are mentioned in the description

These variables get a 1 and all other variables get a 0

### Information about the paintings and the manner of presenting it:

if the dealer mentions engravings done after the painting • engraved:

original: if the original's whereabouts is mentioned (when the painting is a copy)

prevcoll: if the previous owner is mentioned

if the dealer devotes an additional paragraph (always written in larger font) to praise aspects of the painting  $\,$ • Irgfont:

• discauth: if the dealer engages with the authenticity of the painting.

#### Visual traits identified in the paintings:

- othartist: if the painting is linked to the work of another artist or style
- paired: if the painting is sold or suggested as a pairing for another
- finished: if the painting is noted for its highly polished finishing
- figures: if the number of figures included is emphasized
- nfigures: if the number of figures is specified

### Subject matter descriptors:

relig: if a religious subject matterlands sc: if described as a plain landscape

lands\_figs: if description mentions figures in landscapelands\_ment: if landscape is mentioned in the description

• arch: if architectural constructions are mentioned in the description

• mytho: if a mythological scene is mentioned

• peasant: if description mentions peasants messing around

• othgenre: if description mentions a genre scene (different than a peasant scene)

• portrait: if described as a portrait

• singlefig: if description mentions a single figure (different than a portrait)

• still life: if description indicates still life elements

• history: if description includes elements of history painting

• allegory: if allegorical scene is mentioned

• pastorale: if "pastorale" is mentioned in description



Cornelis van Poelenburgh, Rest on the Flight into Egypt, c. 1640, oil on copper, 34 x 44 cm, Fogg Art Museum, Cambridge

## **Research Questions**

What drove the prices of paintings sold?

How can we characterize the marketing strategy of dealers who wrote the sales catalogues?

Can we identify the most preferred sets of characteristics in the paintings that buyers sought? Are there any substitutability criteria at work?