

DATA EXPEDITIONS

STA112FS Better Living Through Data Science

PAINTINGS IN PARIS

1764-1780

Sandra van Ginhoven





Significant transformations are taking place in Visual, Media, Art & Markets and Information Studies at Duke, which is shaping new pedagogies and research. **DALMI** creates a new niche for Art and Market research using a hybrid combination of new historical, econometric, statistical and computational methodologies to study **large aggregates of art market data**. This new type of data analysis generates new, fundamental questions and new methodologies from the humanities outward to the social sciences and sciences.

Current projects include:

(1) ART AUCTION DATABASE WITH GETTY RESEARCH INSTITUTE

The core objective is to assist in the research and development of a new Data Base Management System (DBMS) and to help re-design the Getty Provenance Index® databases from a flat file data model to a user friendly, relational and historical art auction database, accessible to students and scholars worldwide, with support from Information Initiative @ Duke (IID);

(2) ART TRADE NETWORKS BETWEEN EUROPE AND THE AMERICAS

Advanced research that maps new data on transatlantic art trade flows and agents' network dynamics in a context of cultural exchanges and proto-industrialization, using statistical and visualization tools and network analysis techniques;

(3) EMERGING ART MARKETS : PARIS

Advanced database driven research on dealer-consumer behavior in Paris in the eighteenth century using OCR, regression analyses and consumer theories to uncover how art expertise and preferences (taste) were constructed;

(4) FANTASY COLLECTING: AN ART MARKET SIMULATION GAME

R & D of a web-based network game that allows users to form virtual art collections as part of already existing courses in Economics and Art History. Versions of the game software will be maintained and made available using GitHub under the terms of the GNU General Public License as open source, with support of Humanities Writ Large.

<http://www.dukedalmi.org/>

PARIS PAINTINGS

- Dataset compiled by Hilary Coe Cronheim & Sandra van Ginhoven
- Source: printed catalogues of 28 auction sales in Paris, 1764-1780
- 3,393 paintings: their prices & descriptive details from sales catalogues
- 60 variables (fields)

AUCTION SALES IN 2014

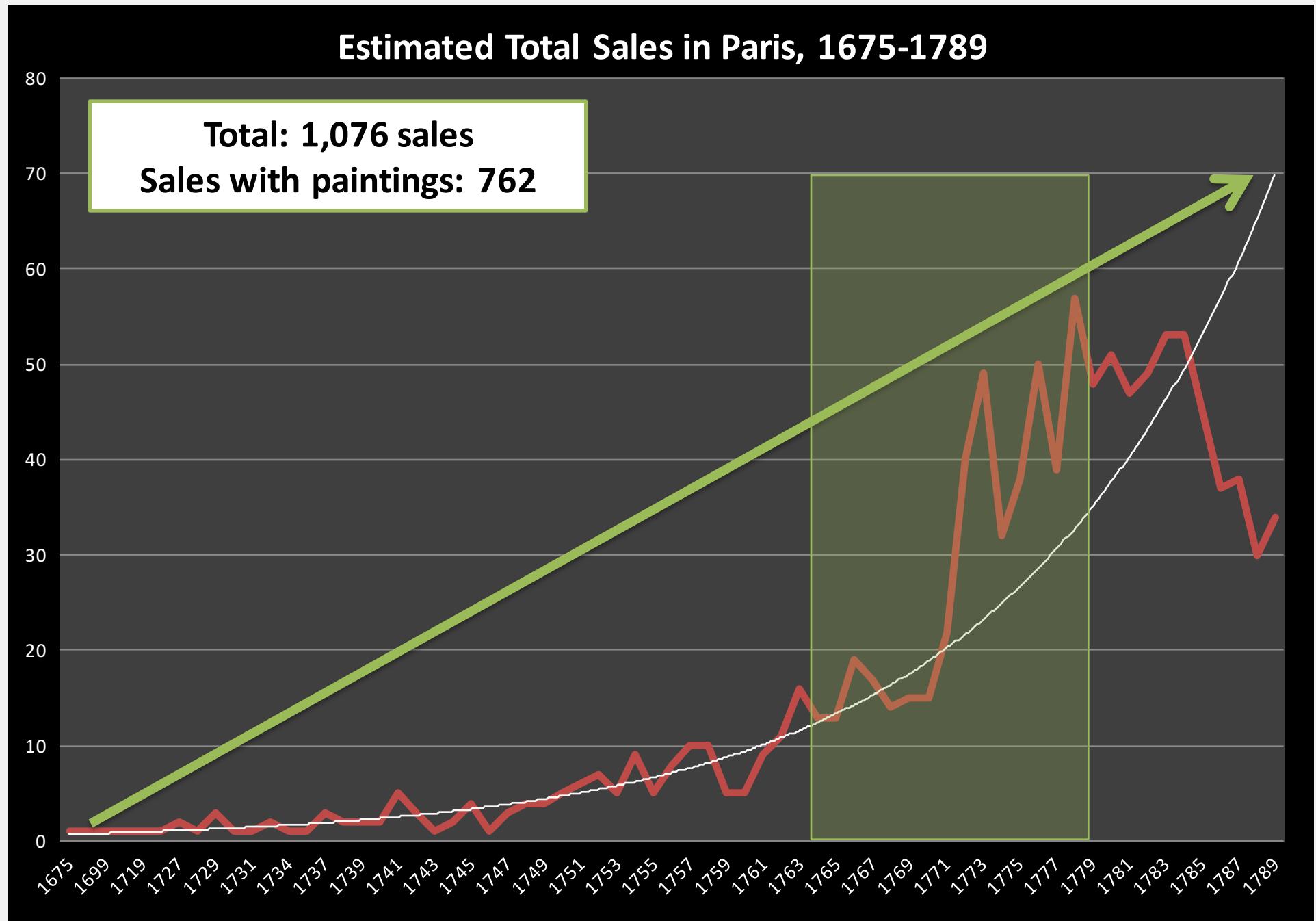
[Sotheby's Old Master & British Paintings Evening Sale Soars over Estimate](#)

AUCTION SALES IN EIGHTEENTH-CENTURY PARIS

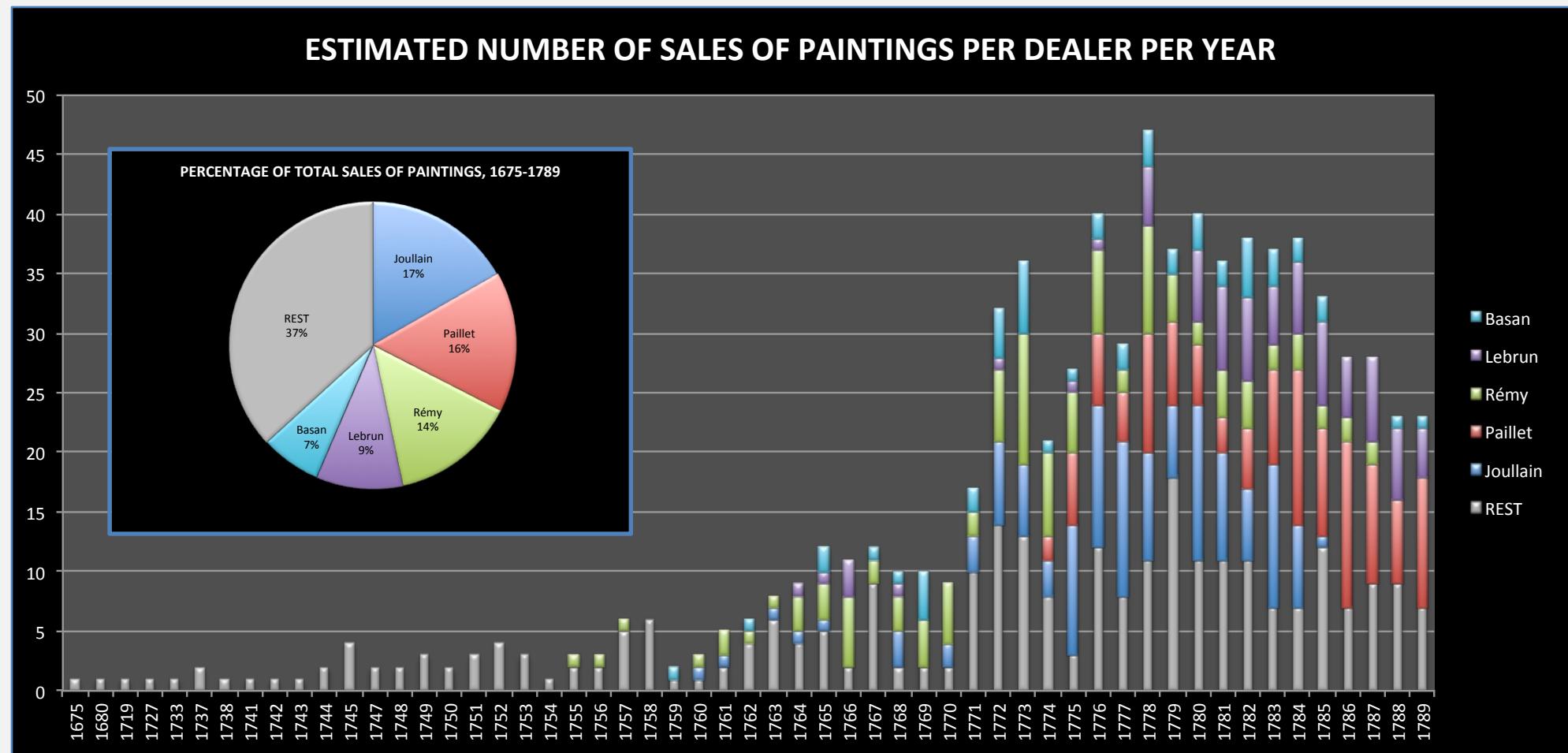


Pierre-Antoine de Machy, *Public Sale at the Hôtel Bullion*, Musée Carnavalet, Paris

AUCTION SALES IN EIGHTEENTH-CENTURY PARIS



AUCTION SALES IN EIGHTEENTH-CENTURY PARIS



SOURCE: SALES CATALOGUES



Ecole des Pays-Bas. 15

voit un marais , un homme & une femme sur le chemin ; l'autre par Bartholomée , est composé de rochers très élevés , de plusieurs arbres bien feuillés , de montagnes & de coteaux ; on remarqué sur le premier plan une femme , des chevres , des vaches & un mulet. Le ton de couleur de ce dernier tableau , est vigoureux & d'un pinceau moelleux.

Jean Rottenhofer.

41 Le Baptême de Notre Seigneur , dans un paysage peint par Breughel de Velours .

Ce tableau , sur cuivre de 12 pouces de haut , sur 18 de large , est brillant de coloris ; il est du meilleur temps de ces deux Maîtres : il vient du Cabinet de M. le Duc de Tallard .

42 Un autre tableau brillant de coloris , la composition en est autant agréable que riche , c'est le festin des Dieux : on compte quarante-cinq figures sur des plans différents .



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

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CHRISTIE'S

PHILIPS WOUWERMAN (HAARLEM
1619-1668)
THE DEPARTURE OF A HUNTING PARTY

Price Realized
£1,217,250
(\$1,847,786)

Sales totals are hammer price plus buyer's premium and do not reflect costs, financing fees or application of buyer's or seller's credits.

Estimate
£1,000,000 - £1,500,000
(\$1,517,000 - \$2,275,500)

Sale Information
Sale 7862
Old Master & 19th Century Paintings, Drawings &
Watercolours Evening
6 July 2010
London, King Street

Lot Description
Philips Wouwerman (Haarlem 1619-1668)
The departure of a hunting party
signed 'PHILS W' (PHILS in monogram, lower right)
oil on panel
20½ x 26 3/8 in. (52 x 67 cm.)

Special Notice
No VAT will be charged on the hammer price, but VAT at 17.5% will be added to the buyer's premium, which is invoiced on a VAT inclusive basis.
Please note Payments and Collections will be unavailable on Monday 12th July 2010 due to a major update to the Client Accounting IT system. For further details please call +44 (0) 20 7839 9060 or e-mail info@christies.com

Pre-Lot Text
THE PROPERTY OF A GENTLEMAN

Provenance
Jeanne-Baptiste d'Albert de Luynes, comtesse de Verrue (1670-1736), Paris, before 1734; (+) Paris, 27 March 1737, lot 103, with pendant, sold 2500 francs.

Pierre-Louis-Paul Randon de Boisset (1710-1776), *Receveur général des Finances*; (+) Remy-Juilliot, Paris, 27 February 1777, lot 89, with pendant, 'Deux tableaux très riches de composition, d'une belle exécution, & dont le mérite est très remarquable', sold for 10,660 francs to the following.

Nicolas Poullain; Le Brun, Paris, 15 March 1780, lot 56, with pendant, 'Ces deux-ci sont aussi recommandables dans leur genre que le premier. Ils sont du meilleur tems de Maître...', sold for 12,100 francs to Du Lac.

Louis due de Noailles, maréchal de France, Paris, 1781.

De Monttribloud collection, Paris, 9 February 1784, lot 54, with pendant, 'Il n'est pas possible de trouver deux Tableaux, & plus riches, & d'une touche plus fine & plus précieuse...ils sont bien conservés, & d'un meilleur temps du Maître, qui paroit s'être plu à en faire deux chefs d'œuvre...', sold for 452 francs to Pouillet.

Peter Burrell, Lord Gwydir, Grimsthorpe Castle, Lincolnshire, and Whitehall, London; (+) Christie's, London, 9 May 1829, lot 74, 'The Return from the Chase - this exquisite chef d'œuvre is from the cabinet of Monsieur Poullain', sold for 680 gns. to Richard Foster.

Richard Foster, from whom acquired by Henry Bevan, London, for £1000, 1829.

A. Rofe, Esq.; Sotheby's, London, 8 July 1859, lot 52, sold to Manning, with Leonard Koetsier Gallery, London, 1959, where purchased by the father of the present owner.

Literature
J. Moyreau, *Oeuvres de Philips Wouwerman, Hollandais, Gravées d'après ses Meilleurs Tableaux qui sont dans les plus beaux cabinets de Paris et ailleurs*, Paris, 1737-1762, no. 16.

J. Smith, *A catalogue raisonné..., etc.*, I, London, 1829, p. 204, no. 10; IX, 1842, p. 139, no. 3.
C. Blanc, *Histoire des Peintres de toutes les écoles*, Paris, 1861-1876, I, p. 8 and pp. 356-7; II, p. 88.

C. Hofstede de Groot, *A catalogue raisonné..., etc.*, II, London, 1908, p. 427, no. 68.
B. Schumacher, *Philips Wouwerman: The Horse Painter of the Golden Age*, Doornspijk, 2006, I, pp. 261-2, no. A226; II, fig. 208 and pl. 29.
Q. Buvélot, in the catalogue of the exhibition, *Philip Wouwerman*, Zwolle, 2009, pp. 130-33, no. 30, illustrated.

Exhibited
London, Leonard Koetsier Gallery, *Winter Exhibition*, 1959, no. 14.
Kassel, Gemäldegalerie Alte Meister, and The Hague, Mauritshuis, *Philips Wouwerman*, 1 July 2009-28 February 2010, no. 30.

Engraved
Jean Moyreau (1690-1762), *Fêtes et Adieux des Chasseurs*, 1734.

Lot Notes
Recognised since the eighteenth century as one of Philips Wouwerman's 'chefs-d'œuvre', the importance of this picture was signalled most recently by its selection for the first major monographic exhibition of the artist's work held at the Mauritshuis in 2009-10.



Lot 18 / Sale 7862

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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 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 figures distribuées agréablement dans toute la largeur du tableau ; deux chevaux qui boivent à une fontaine ; 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.

48 ments ; des arbres & des fabriques enrichissent agréablement le fond. Le second tableau, qui est sur toile, fait voir un terrain d'une grande étendue, près la mer qui est à gauche, & sur laquelle sont des vaisseaux : on y voit aussi des bagages que l'on décharge d'un chariot, des hommes, des femmes, des enfants, deux chevaux qui mangent, & des mulets chargés de bagages.



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 the Countess of Verrue; it represents a departure for the hunt: it shows in the front a child on a white horse, a man who sounds 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 buildings pleasantly enrich the background.

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DATASET: BASIC INFORMATION ABOUT THE PAINTINGS

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
1	name	sale	lot	dealer	year	origin_author	origin_cat	school_pntg	diff_origin	price	count	subject	authorstandard	artistliving	authorstyle	author	winnir
2517	R1777-86	R1777	86	R	1777	D/FL	D/FL	D/FL	0	620.0	1	2 femmes, enfants, paysage vu à travers une arcade	Bega, Cornelis Pieterszoon	0 n/a	Corneille Bega	Lebrun	
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	Donjeu	
2519	R1777-88	R1777	88	R	1777	D/FL	D/FL	D/FL	0	8,000.0	1	Paysage sablonneux	Wouwerman, Philips	0 n/a	Philippe Wouwerman	Lambe	
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	Langlie	
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	Langlie	

name	unique ID of painting
dealer	Joullain (J), Lebrun (L), Paillet (P), Remy (R)
year	1764-1780
econindex	price economic index (agricultural)
Origin_author	A (Austrian), D/FL(Dutch/Flemish), F (French), G (German), I (Italian), S (Spanish), X (Unknown)
Origin_cat	D/FL, F, I, O (Other masters)
School_pntg	D/FL, F, I, X
Diff_origin	if origin_author differs from origin_cat (1); otherwise (0)
price	price fetched at auction (sales price in livres)
Authorstandard	name of artist (starndardized)
artistliving	if living artist (1); deceased (0)
Authorstyle	artist unknown but inspired on another (copy of, in style of, attributed to)

DATASET: BASIC INFORMATION ABOUT THE PAINTINGS

	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	
1	winningbidder	winningbiddertype	endbuyer	Interm	type_intermediary	Height_in	Width_in	Surface_Rect	Diam_in	Surface_Rnd	Shape	Surface	material	mat	quantity	nfigures	engraved	
2516	Feuillet	D	D	0		16	20	320		squ_rect		320	toile	t		1	0	0
2517	Lebrun, Jean-Baptiste-Pierre	D	D	0		13.25	11	145.75		squ_rect		145.75	bois	b		1	0	0
2518	Donjeux, Vincent	D	D	0		23	29.25	672.75		squ_rect		672.75	toile	t		1	50	0
2519	Lambert, John (Chevalier Lambert)	C	C	0		23	30	690		squ_rect		690	toile	t		1	0	1
2520	Langlier, Jacques for Poullain, Antoine	DC	C	1	D	17.25	23	396.75		squ_rect		396.75	bois	b		1	0	0
2521	Langlier, Jacques for Poullain, Antoine	DC	C	1	D	17.25	23	396.75		squ_rect		396.75	toile	t		1	0	0
2522	Choiseul-Praslin, Comte de	C	C	0		6.5	9.25	60.125		squ_rect		60.125	cuivre	c		1	0	0

Winningbidder

name of winning bidder

Winningbiddertype

D (dealer); C (collector); E (expert); B (buyer); X (unknown)

Endbuyer

end buyer category from winning bidder type

Interm

1 if intermediary purchased the painting

Type_intermediary

intermediary category from winning bidder type

Height_in

Height in inches

Width_in

Width in inches

Diam_in

Diameter in inches (if Shape = round or oval)

Shape

Shape of painting (squ_rect, round, oval, miniature)

material

material of support (alabaster, bronze, canvas, cardboard, copper, glass, miniature, paper, pastel, slate, wood, other)

DATASET: BASIC INFORMATION ABOUT THE PAINTINGS

	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE
1	nfigures	engraved	original	prevcoll	othartist	paired	figures	finished	lrgfont	relig	landsALL	lands_sc	lands_fig	lands_me	arch	mytho	peasant	othgenre	singlefig	portrait	still_life	discauth	history	allegory	pastorale	other
2517	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
2518	50	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
2519	0	1	0	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
2520	0	0	0	1	0	1	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
2521	0	0	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0

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 the Countess of Verrue; it represents a departure for the hunt: it shows in the front a child on a white horse, a man who sounds 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 buildings pleasantly enrich the background.

DATASET: BASIC INFORMATION ABOUT THE PAINTINGS

	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE
1	nfigures	engraved	original	prevcoll	othartist	paired	figures	finished	rgfont	relig	landsALL	lands_sc	lands_figs	lands_arch	mytho	peasant	othgenre	singlefig	portrait	still_life	discauth	history	allegory	pastorale	other	
2517	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	
2518	50	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	
2519	0	1	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	
2520	0	0	0	1	0	1	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	
2521	0	0	0	1	0	1	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	

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

DATASET: CATEGORICAL VARIABLES

INFORMATION ABOUT THE PAINTINGS AND THE MANNER OF PRESENTING IT:

- engraved: if the dealer mentions engravings done after the painting
- original: if the original's whereabouts is mentioned (when the painting is a copy)
- prevcoll: if the previous owner is mentioned
- lrgfont: if the dealer devotes an additional paragraph (always written in larger font) to praise aspects of the painting
- discauth: if the dealer engages with the authenticity of the painting.

DATASET: CATEGORICAL VARIABLES

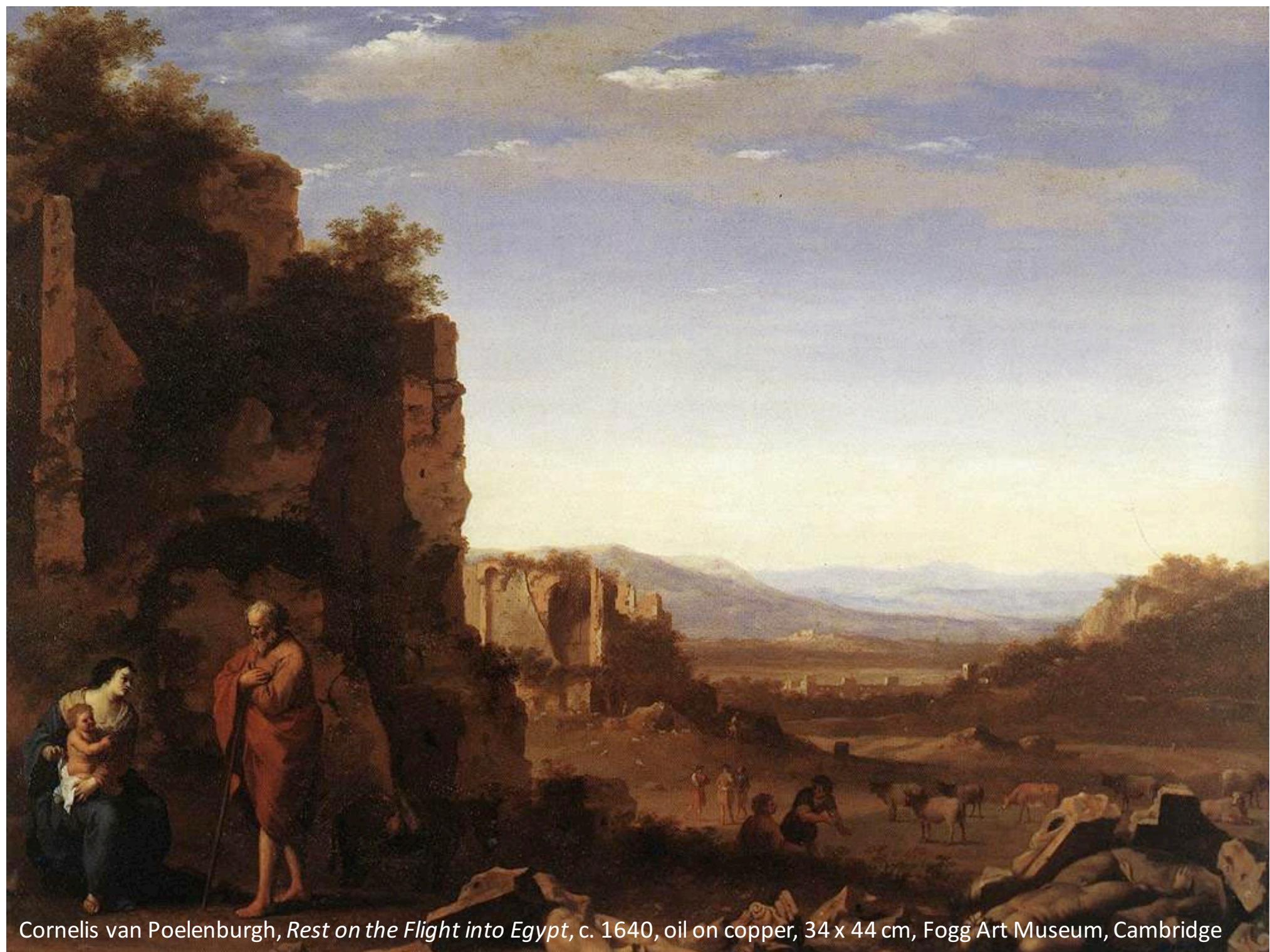
VISUAL TRAITS IDENTIFIED IN THE PAINTINGS:

- 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

DATASET: CATEGORICAL VARIABLES

SUBJECT MATTER DESCRIPTORS:

- relig: if a religious subject matter
- lands_sc: if described as a plain landscape
- lands_figs: if description mentions figures in landscape
- lands_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?

EXPLORATORY QUESTIONS

- What are some important features of the distribution of the prices of paintings sold?
- Describe the distribution of schools of paintings?
- Are the paintings sold mostly by living artists?
- How do prices vary over time and by school of painting?
- Is a particular type of buyer more represented than other?
- Could we think of any way to categorize the paintings from high- to low-end? What could be some criteria that help us construct this categorization?