Archival Research



Archaeologists reconstruct and study past human activity through the material remains left behind.



Historians reconstruct and study past human activity through documents left behind.

Old documents are sometimes kept in private libraries, and sometimes kept in public libraries.

Old documents help us understand the past, although we must keep in mind that NOTHING is ever written without a purpose, and we must analyze old texts carefully before extracting conclusions.

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THE MIDDLE EAST

IRAN

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EXPOSE

ЗАЯВЛЕНИЕ СОВЕТСКОГО РУКОВОДСТВА

ОБРАЩЕНИЕ К СОВЕТСКОМУ НАРОДУ

Tolstov reminded us that it is very difficult to tell the truth

Every event can be reconstructed in many different ways.

"This crusade, this war on terrorism is going to take a while."

Facts and opinions are sometimes difficult to separate.

Spanish writer Gonzalo Torrente Ballester said that he would love to always side with the "good guys," but it is so difficult to tell which ones they are....

Therefore, the **first** important thing to keep in mind when we plan to start an archival investigation is to research the historical frame where events took place.

The **second** step is to gather secondary sources: a bibliography, published old maps, and iconography.

Only then the researcher starts selecting the archives she/he intends to research.

Most archives are unique and research will often require travelling: airplanes, hotels, restaurants, photocopies, microfilms...

It is paramount that the researcher has competent language skills and is acquainted with the contemporary forms of a language or dialect, and understands colloquial expressions, as well as the coeval geography and culture.

Paleographic skills may be acquired as the researcher progresses through the archives.

ويد لرومزكورك مذكره مي لدولة تجد لمبريد اجد فرو ديراية فوت ر الخصور الولان بور ومزدر بي ومذكر الدم نزد برن كر اولى وقو تولى عيون وليدى اوطوا اصلام في فيور واولى مراحدوث كمدول ا وخطاري كممية بمعادته والمستهج الوجور عندان وكدر سينرمزه وعواد تلاعلما وافعي او لرفره كندوقوته خارجد ومكسة وفرايعيوب أمين ومرفى أوكوب جريد وحمل مقيد لولور سنزل ومراجل وولم علاج وقره جرو وربيم إدمل بنه وطال وخراد فنور فكرادة وخوصره كركي اجراي كراند لروجة تزجرونه ركور مارا ويرف عروه والمتبوت فريث اطاط متردف وجبخ وراد لوزى بوراد فدر كومترك متويد سيرو ومت ردية راعة برقرار الرطرير أفي او الترجور بالاقل مريد ستيه وزيني ورالف

Dictionaries may be helpful, as well as paleographic books and guides.

Many archives have been catalogued and have computer search engines.

Many archives are scanning their documents and making them available on line.

2 alt obgo Homes B

It is often important to befriend local experts and archivists. They can help you through the telephone or internet in between visits.

For the specific field of shipbuilding, a number of manuscripts have been researched and are available in digital copies or as facsimiles, and sometimes have been transcribed and translated.

Case study: the manuscripts of Michelle da Rhodi and Zorzi Trombetta da Modon.

Genealogy of Venetian Manuscripts

- 1. There is only a small number of surviving Venetian nautical manuscripts.
- 2. Frequently we don't know who wrote them, why, sometimes even when.
- 3. Some of these manuscripts are copies of previous texts.
- 4. Franco Rossi proposed a genealogy for the known texts.

Franco Rossi's genealogy:

- A) Zibaldone da Canal;
- B) Michele da Rhodi;
- B1) Raxion de' marineri;
- B2) Libro di marineria;
- B2a) Arte de far vasseli;
- B2b) Trattato de re navali cavato dall'esemplar di Gian Battista Ramusio;
- C) Algune raxion per marineri li quali serano utile a saver;
- D) Manoscrito di Zordi"trombetta" da Modone;
- E) Ragioni antique dell'arte del mare et fabriche de vasselli.

Franco Rossi's genealogy:

A) Zibaldone da Canal;

Yale University. Has been published by Alfredo Stussy in 1967.

B) Michele da Rhodi;

In private hands, it will be published this year by the Diebner Institute.

B1) Raxion de' marineri;

Biblioteca Nazionale Marciana, Venezia.

B2) Libro di marineria (also known as Fabrica di galere);

Biblioteca Nazionale Centrale, Firenze.

B2a) Arte de far vasseli;

Osterreichische Nationabibliothek, Wien.

B2b) Trattato de re navali cavato dall'esemplar di Gian Battista Ramusio (also known as Arte de fabricar navi d'autore incerto);

Biblioteca Ambrosiana, Milano.

Franco Rossi's genealogy:

C) Algune raxion per marineri li quali serano utile a saver; Biblioteca Civica, Padova.

D) Manoscrito di Zordi"trombetta" da Modone;

British Museum, London.

E) Ragioni antique dell'arte del mare et fabriche de vasselli. National Maritime Museum, Greenwich.

D

C) Algune raxion per marineri li quali serano utile a saver;

D) Manoscrito di Zordi"trombetta" da Modone.

- B) Michele da Rhodi;
- B1) Raxion de' marineri;
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argomento	B	B ¹	C	B ²	B ^{2a}	B ^{2b}	D	Е
- Aritmetica e algebra	*							
- Curriculum professionale	*							
- Calendario solare per i dodici mesi dell'anno	*	*	*					*
- Amaistramento a tuor sangue per tuti li mexi del'ano	*	*						
- Descrizione dei segni zodiacali	*							*
- Proprietà dei segni zodiacali dominanti le ore del giorno e i giorni della settimana	*	*	*					*

- B) Michele da Rhodi;
- B1) Raxion de' marineri;
- B2) Libro di marineria;
- B2a) Arte de far vasseli;
- B2b) Trattato de re navali cavato dall'esemplar di Gian Battista Ramusio;
- C) Algune raxion per marineri li quali serano utile a saver;
- D) Manoscrito di Zordi"trombetta" da Modone.

argomento	В	B ¹	С	B ²	B ^{2a}	B ^{2b}	D	Е
- Elenco delle stelle e indicazione del giorno in cui sorgono	*	*	*					*
- Dì uziagi e zorny pericholoxi	*	*	*					*
- 4 tenpore che se die vardar	*	*	*					*
- Tavola della Pasqua cristiana ed ebraica dal 1401 al 1500	*	*	*					*
- Tavola dei segni zodiacali	*	*	*					*
- Raxion dela taula de Salamon ala luna zudescha	*	*	*					
- Amaistramento di saver quando fa la luna a raxion uxa i marineri	*	*	*					
- Posizione della Luna in rapporto al Sole	*	*	*					*

- B) Michele da Rhodi;
- B1) Raxion de' marineri;
- B2) Libro di marineria;
- B2a) Arte de far vasseli;
- B2b) Trattato de re navali cavato dall'esemplar di Gian Battista Ramusio;
- C) Algune raxion per marineri li quali serano utile a saver;
- D) Manoscrito di Zordi"trombetta" da Modone.

argomento	В	B ¹	C	B ²	B ^{2a}	B ^{2b}	D	Е
- Calcolo dell'epatta	*	*	*					*
- Amaistramento a saver quando intra el mese e nomi numerici dei mesi per il calcolo sulle mani	*	*	*				*	*
- Calcolo sulle dita per trovar la Pasqua ebraica e da questa la Pasqua cristiana	*	*	*					*
- Ordini impartiti dal <i>capitanio</i> <i>generale da mar</i> Andrea Mocenigo alle galee veneziane l'anno 1428	*	*	*					
- Entrata del porto di Venezia	*	*	*					*

- B) Michele da Rhodi;
- B1) Raxion de' marineri;
- B2) Libro di marineria;
- B2a) Arte de far vasseli;
- B2b) Trattato de re navali cavato dall'esemplar di Gian Battista Ramusio;
- C) Algune raxion per marineri li quali serano utile a saver;
- D) Manoscrito di Zordi"trombetta" da Modone.

argomento	В	B ¹	С	B ²	B ^{2a}	B ^{2b}	D	Е
- Portolan fattto per Zuan Pires, pedotta del mar di Fiandria	*	*	*					*
- Traversse de Spagna	*	*	*					*
- Traversse da Ossente a Chales in chanal di Fiandres	*	*	*					*
- Aque e marie de Fiandria	*	*	*					*
- Marie e aque d'Erlanda e de Gaules e del'ixola de Ingletera	*	*	*					*
- Nomi dei venti in lingua spagnola	*	*						
- Per saver entrar in Sentuzi	*							

- B) Michele da Rhodi;
- B1) Raxion de' marineri;
- B2) Libro di marineria;
- B2a) Arte de far vasseli;
- B2b) Trattato de re navali cavato dall'esemplar di Gian Battista Ramusio;
- C) Algune raxion per marineri li quali serano utile a saver;
- D) Manoscrito di Zordi"trombetta" da Modone.

argomento	B	B ¹	С	B ²	B ^{2a}	B ^{2b}	D	Е
- Per intrar al porto del 'Eschioza	*							
- Per voler intrar in Sancto Ander	*							
- Sonde d'i chanalli de Fiandria	*							
- Portolan per la riviera de Poya	*	*	*					*
- Portolan per lo golfo de Salonychi	*	*	*					*

- B) Michele da Rhodi;
- B1) Raxion de' marineri;
- B2) Libro di marineria;
- B2a) Arte de far vasseli;
- B2b) Trattato de re navali cavato dall'esemplar di Gian Battista Ramusio;
- C) Algune raxion per marineri li quali serano utile a saver;
- D) Manoscrito di Zordi"trombetta" da Modone.

argomento	B	B ¹	С	B ²	B ^{2a}	B ^{2b}	D	Е
- Istruzioni per il taglio delle vele	*	*	*	*	*	*	*	*
- Raxion del martoloyo (1)	*	*	*				*	*
- Galea di Fiandra	*			*	*	*		*
- Galea di Romania	*			*	*	*		*
- Galea sottile	*			*	*	*	*	*
- Nave a vela latina	*			*	*	*		
- Nave a vela quadra	*			*	*	*		

(1) A system to navigate without charts.

- B) Michele da Rhodi;
- B1) Raxion de' marineri;
- B2) Libro di marineria;
- B2a) Arte de far vasseli;
- B2b) Trattato de re navali cavato dall'esemplar di Gian Battista Ramusio;
- C) Algune raxion per marineri li quali serano utile a saver;
- D) Manoscrito di Zordi"trombetta" da Modone.

argomento	В	B ¹	С	B ²	B ^{2a}	B ^{2b}	D	Е
- Amaistramento de far albori e antene	*			*	*	*	*	
- Raxion de far sartia	*			*	*	*	*	
- Nave a velo (tavola)	*			*	*	*		
- Preghiere, invocazioni, formule rituali e magiche	*							
- Insegna pseudoaraldica (tavola)	*							
- San Cristoforo (tavola)	*							

Michele da Rhodi

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"In the name of God. I, Michael of Rhodes, shall write below about the time I came to Venice. It was on June 5, 1401."

Born around 1385, possibly in Rhodes, but not necessarily.

(there were many Rhodian colonies).

The Knights of Rhodes regularly maintained a fleet of four galleys, manned by free Greek Rhodians with a hereditary service obligation.
+ 000 137 Aproba. 3. Aper regetta Buterhany de zuono depop: mongo toz 20. Aper igetta: Pu techany dela to Smorgo 3. Aper mor pura não porozo. la banda (Cad boljon talita galha domo 3 How / Carfarando Saloro Sfuora d'Empo fura da Intimaldate de - Operozetto des. par q- aprourando 100101-Lafte date dafte. piro 3 the Inchina. aldent Staparafrena_ -pre: 5 apriliando da loro dín dalmader douche hom un abaffs chavad delachunola des pir 3. mr mrgo trèso Aprir oper tonge after Moftre gallie defandye de fun positivo alottro d'optory papar 19. pur 3. oficeo che tacho dora Apela deprode longi del positivor del colottro pur 7. me mila quarta oficeo che la posta deposi del des del positivor del doltro pic. 9. mr i de por galia no efe pede

He must have been a young man when he signed himself onto a Venetian galley in 1401, as he lived another 44 years, going to sea in all but the last of them. His proper name is given as the Greek 'Michali' in both of his manuscripts and in the rolls of the Collegio, rather than in the Latin 'Michael' as for his Venetian compeers.

La Ho.

d b



He began service at the bottom of the hierarchy and pay scale, as an oarsman in the navy.

-t the t 140 Durfo Apomraza duretto Auch der -per 8-1-4 pir 8 mt doler pic 8 to to pir St pir 7 por & dolo 1 pir 6 por . 8 . mirze trujo par 5 20 ofougetta por pr 8 pir + por 7 = Ado 1 pir 3 por 1 . do 1 w 2. pir 6 doo.1. per -1. pirt J LE 3 pir 6 min Apin pir. 5. Durfta. Tourb. Ja. ampirsa. 1910 fra. & minurto

In 1404, after three years as an oarsman in the Guard Fleet, Michael of Rhodes got a position as oarsman on one of the merchant galleys of the Flanders convoy.

+ FRO + papafiche dpapa . torna the 127 Chochina depapa "torna the 127 Nui vola.gd poto pofigura 185

In 1405, Michael was promoted to the rank of *proder* and returned to the Guard fleet;



In 1407 Michael of Rhodes rose to the rank of *nochier*, and again had to return to the guard fleet for the promotion.



In 1407 the Venetian Great Council gave Michael of Rhodes citizenship.

+ FRS-t 153 Evel ladta gallia barcha vna longa oper Apura pour of Toplonba longa per ruel of Tpian per vuel of reta Toplana per rvuel of a write in bucha. - pur Course ladera dopano. J. Congo. Jacfolonba, per Flogo. Teforita per domy retraurizor Theche. per prince of oto per over of aurito spea per. Asmo faco. Ad futto. pfigura

Michael left the Guard fleet for the Flanders convoy in 1410, where he served as *nochier* for three successive annual voyages.

In 1414 he was given the rank of *Paron*.

-+ the 19-6 ponto platto rydabafa vuol provente q. plapta de per kapyonde 12. latora 13. laquarta 19 Peturali - popr reprime de pur 13. reforgende depor 132 re. 14230 de por 19. requesto depor 14 daprima profi 19 alafryonda. - Suchi 15 alabriza profi 15 alaquaria 15 reforzo 30 Armpare Whole lagta galla pladta frua mufirth purto m's parti Nucl fro party whole punto plat some plad of larfourte Nucl polipor No Nucl any.

Perhaps as recognition for his service in the important battle of Gallipoli, against the Otomans under Mohammed I, Michael of Rhodes was promoted in 1417, the next year, to the position of *omo di conseio* on a galley of the Flanders fleet.

-+ The + 194 Downelly ... & paper 40 - fun deprover repaps &, ~-~ use pozaftarlle & paper is paper & 2. ~ not aganhefio. & peper 6. ppape & 2. ~ uol montomyana vina dipassa. 13. pousso & 4 ~ uol armaoz. Vor pallizo dipassa 120 popas & 2 ~ we agailtra. deroligen & pape. in pape & ~!. Nuc ripa Nna. detara marfra. Apala. 8. ppalla & 10 Nuc Aggneta. 7. dpala 36 -ppallo & an Apamo Vidy g. & fotto - I figura V uol Amali . T. plad. Apapa. 8. An de prioar. pato & 4 V uol monaoy . T. plad. Apapa. 9. lun de prioar pato & 1 V uol palomerer. A depata do luna deportar repato & 4

In 1422, Michael reached the highest shipboard rank open to a non-noble, that of *armirayo*. The *armirayo* served as the adjutant to the commander of all of the ships in a given fleet.

Scritli e ricordi di Michele Daruodo. The us wool worder or to gree go of the prime Ing to libro pono of . in hargo . de pop. -· . A 1 a Gioszta dipap. .a ajohipidar. - a- zongrz. mity of with . a partie with one with a trager mitty darity . . a dar stuor. with - - a laba. guiza daringola de 3. A g. 10 1- tran rully roomer rully - - Ag 10 15 a Appstulli del 3-bra. - - An 13 14 15 16 a doft. 3mfr. Andy - radger - A 17 18 a Apprille . 18. Eal zibron - A 18 a vorder go of vuse fr. Appetulli -118 19 ~ liegar . az 3 mill . frommily Viny - frig 20 . 197 . 198 a barattare merchamite - - theo as an a toppamir domrichanter - - Ans 29 30 - pager . Mush Fgalia. s Jonaur + 30 31 32 a Jugar dady Theratajon - - h 33 34 35 a deprar: 3. 1. zoya - - A 35 36 37 a vas chifa tifaminto - h 37 avna concer grovera - h 37 - Autrili Nazim - - # 37 38 2 charlos & famo - - + # 39 Federico Patetta Ms. nº. 32.

The Michael of Rhodes codex bears a table of contents at the front, summarizing the entire book with references to folio numbers.

At the top of its first page, in addition to the usual invocation of Jesus, appears the phrase "In the name of Christ, 1434" in the same hand as the rest of the table of contents and most of the manuscript.

10-V for 1970 aly chetterio Ja & Juine franc , chui Jel maran passion & polonio maca . B. & 4.875

His was given the grant of the steelyard in 1445, which was the type of boon granted by the Venetian state to sailors when they turned sixty in lieu of formal retirement pay.

He died in that same year. His book was not with him by then.

Trombetta Manuscript, 1444-1449.

This text is in the British Museum, bound in a small volume with several manuscripts. It seems to have formed a book by itself, presenting one handwriting and one kind of paper. It consists of leaf 2 to leaf 60 of the volume in which it is bound. The author or compiler signs as Zorzi/Giorgio Trombetta da Modon, writes in an Venetian dialect, and dates the beginning of the manuscript at 1444.



The manuscript contains notes on music, medicine, astronomy, engineering, sail making, shipbuilding, arithmetic and other subjects. Despite the lack of order in which the nautical notes are presented, they can be organized in four groups: on galleys, on ships, on rigging and on sail making.



We do not know the exact date of birth and death of Zorzi Trombetta da Modon, but we do know (from a document of 1481) that his full name was Zorzi di Nicola. However, a glance at the broad outline of his long musical career (1444-1494) suggests that he was born around 1420 and died between 1495 and 1502.



It was probably in 1444 that he began to serve as a trumpeter on certain Venetian mercantile galleys (*galere da mercato*) that plied the trade routes to Flanders and the Levant.



Vittore Carpaccio The Return of the Ambassadors, from the St. Ursula, 1494



He might have settled definitively in Venice soon after 1449.



Gentile Bellini, Procession in Piazza San Marco, 1496

He was an important—and probably central—figure in Venetian instrumental music during the second half of the fifteenth century.



He served in the ducal band of *piffari* and trombones for a considerable time, became one of its most influential members, and created, with his sons Girolamo and Alvise, a "school" that monopolized the group's brass section for about thirty years.



Contents

2a-8a – Music;

8b – Table of contents;

9a-11b – The virtues of rosemary;

12a-16a – Sails and Rigging;

16b-19b – Astronomy;

20a-23a – Letter to the Pope;

23b-25b – Accounts;

26a – Blank;

26b – Accounts;

27a – Blank;

27b-28b – Shipbuilding;

29a – Blank;

29b-36a – Engineering;

36b – Blank;

37a-60b – Shipbuilding, sail making and arithmetic.



The information on galleys and other oared craft includes:

- a description of a galia sottil of 29 banks, with drawings of the offsets for the conception of the stem and sternpost and the midship section (ff. 43b & 44a);
- a larger galia sottil;
- a third galia sottil;
- a galia grossa, with drawings (ff. 39b & 40a);
- a drawing of a galley (ff. 48b);
- a fusta of 26 banks;
- references to a second and a third, smaller type of fusta, of 15 and 10 banks.

The third part includes diagrams (ff. 40b) and the galley's boats, with drawings (ff. 57a & 60a).



The information on ships includes the dimensions of eight different kinds of ships, from 200 to 1000 *botte* with drawings and diagrams.



Mauro Bondioli, 2003 "The Art of Designing and Building Venetian Galleys from the 15th to the 16th Century" (ISBSA 2000)



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Then, the stem and sternposts were designed, based on a series of given offsets marked from the hypotenuse of triangles formed from a line uniting the scarf on the keel and the point were the deck meets the stem or sternpost.



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Then, the stem and sternposts were designed, based on a series of given offsets marked from the hypotenuse of triangles formed from a line uniting the scarf on the keel and the point were the deck meets the stem or sternpost.



With the keel and posts in place, it was time to erect the frames which were to be placed before the planking.

Mauro Bondioli, 2003 "The Art of Designing and Building Venetian Galleys from the 15th to the 16th Century" (ISBSA 2000) These were shaped by a series of horizontal lines determining the widths at certain heights, generally every foot or half a foot.



Standard molds may have been used and, for small craft, the shape of the frames may have been determined by a bent batten.



Michael of Rhodes

The number of pre-erected frames varied from three to five or more. In the long hulls of the galleys every fifth frame was pre-erected.



The total narrowing (and presumably the rising) of the frames was established previously, and the progressive change from frame to frame was calculated through a variety of methods of which two are indicated in the Timbotta manuscript: the *mezzaluna* and an incremental triangle.



Fig. 4. The four 'Partison' in use in Venice and the use of the half moon. A Narrowing of floors (*fondi*). B Rising of floors (*stella*). C 'Haleing down' of futtocks (*scorer del sesto*). D Widening of futtocks (*ramo*).
After these frames were in place ribbands, wales or planking strakes were placed to determine the overall shape and allow for the design of the remaining frames.



Related proportions were then extended to the conception of masts, yards, rigging and sails.



Lunch Time!