

Copernicus in Italy

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Portrait of Copernicus by Henryk Siemiradzki (Roma, 1876). Courtesy of the Copernican museum, Roma.

Giacomo Leopardi on the Copernican revolution

... Its effects will not belong to physics only: for it will upset the degrees of the dignity of things, and the order of entities; it will exchange the ends of creatures; and, therefore, it will make a great upheaval also in metaphysics, indeed in everything that touches the speculative part of knowledge. And it will result that humans ... will find themselves to be anything but what they have been so far, or what they have imagined to be.

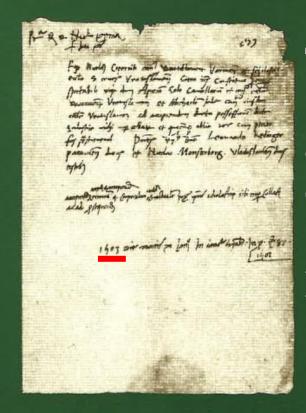
Giacomo Leopardi, Il Copernico, Scena IV (1827)



Copernicus' bust placed in the Basilica of the Bo Palace in 1976.

The Copernicus telescope (182 cm) in Asiago – Cima Ekar, inaugurated in 1973 in the occasion of the V centenary of Copernicus birth.

COPERNICO A PADOVA



The most ancient autograph document by Copernicus (1503). State Archive of Padua.

UNIVERSITÀ DEGLI STUDI DI PADOVA Atti della Giornata Copernicana nel 450° della pubblicazione del De Kevotutionibus Orbium Coetestium

10 dicembre 1993

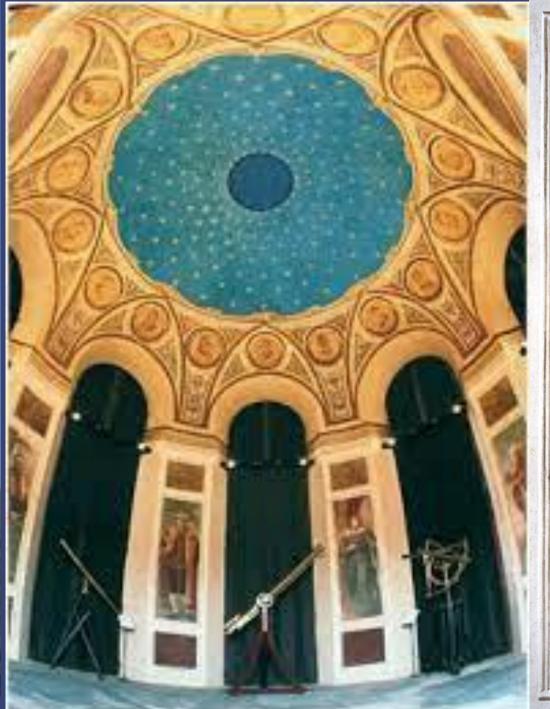




Plaque placed in the Aula Magna in 1873, in the occasion of the IV centenary of Copernicus' birth.











1496-1500: Bologna

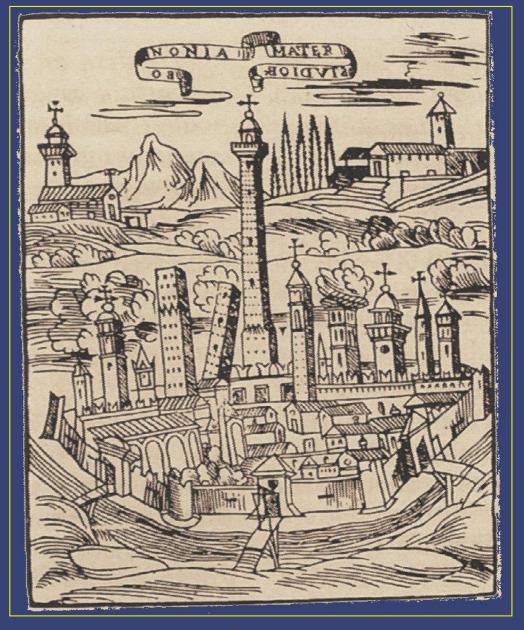
1500: Rome

1501-1503 Padua

1503 Ferrara

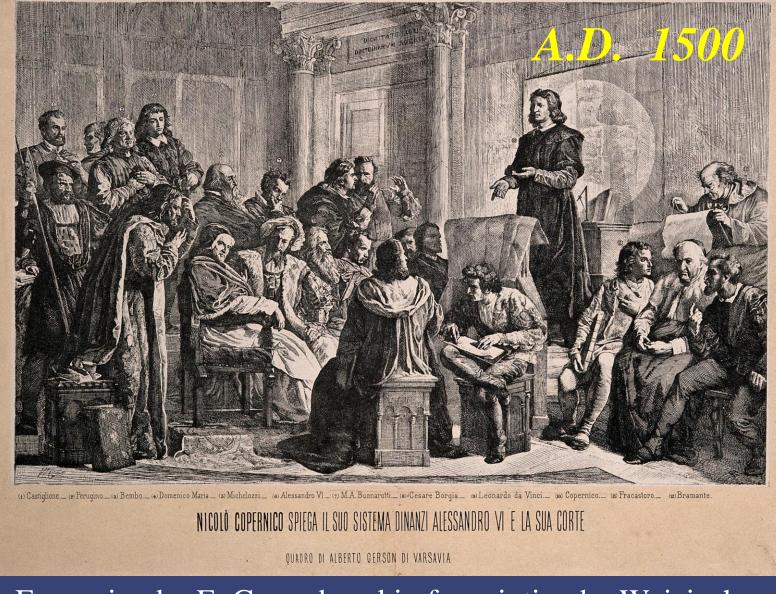
A.D. 1496 - 1500

He was registered as a student of law but collaborated with professor Domenico Maria Novara in mathematical researches and astronomical observations («non tam discipulus quam adjutor et testis observationum doctissimi viri Dominici Mariae». Gioacchino Retico, 1540).



Bologna

1500: Rome to celebrate the jubilee. May have illustrated his ideas in the mansion of cardinal Alessandro Farnese, future Pope Paul III, to whom the De Revolutionibus is dedicated.



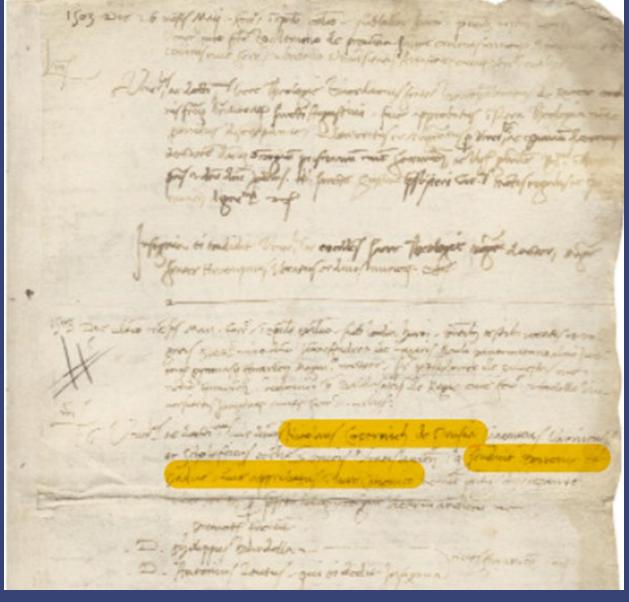
Engraving by E. Gorazdowski of a painting by Wojciech Gerson. Astronomical and Copernican Museum, Rome.

Studied medicine. Probably followed classes together with Girolamo Fracastoro.

Close link between medicine and astronomy: astral influences believed to govern the fate of human body. "Ne medici quidem ipsi ullo in numero habebantur, nisi simul astrologi essent" (Jacopo Facciolati, 1682-1769)



Map of Padua in the XVI century



Ferrara state archive: Certificate of doctorate in canon law received by Nicolaus Copernicus on May 31, 1503. Deed of the notary Tommaso Meleghini.

"1503. Die ultimo mensis maii. Ferrarie. In episcopali palatio sub lodia horti, presentibus testibus vocatis et rogatis spectabili viro domino Ioanne Andrea de Lazaris, siculo panormitano, almi iuristarum gymnasii ferrariensis magnifico rectore, ser Bartholomeo de Silvestris, cive et notario ferrariensi, Lodovico quondam Baldasaris de Regio, cive ferrariensi, et bidello universitatis iuristarum civitatis Ferrarie et aliis.

Venerabilis ac doctissimus vir dominus Nicolaus Copernich de Prusia, canonicus varmiensis et scholasticus ecclesie sancte Crucis vratislaviensis, qui studuit Bononie et Padue, fuit approbatus in iure canonico, nemine penitus discrepante, et doctoratus per praefatum dominum Georgium, vicarium antedictum etc.

Promotores fuerunt dominus Philippus Bardella et dominus Antonius Leutus qui ei dedit insignia, cives ferrarienses".

What may have attracted Copernicus to Italy?

- Italian Universities had a very good international reputation. No problem with language: latin was the universal language of European scholars.
- Links with Poland were particularly tight: famous saying on the Poles and Italians: «i luoghi sono ben lontani, ma gli animi son ben vicini» i.e. "places are far away, but souls are very close" (G.B. Guarini, Il pastor fido, composed between 1580 and 1583). Bona Sforza became Queen of Poland in 1518 as the second wife of Sigismund I.
- The cultural climate of Italy was particularly vibrant: it was the Renaissance period, with flourishing arts and sciences.

Contemporaries to Copernicus (1473-1543)

Ludovico Ariosto (1474 – 1533)

Donato Bramante (1444? - 1514)

Sandro Botticelli (1445 – 1510)

Michelangelo Buonarroti (1475 – 1564)

Cristoforo Colombo (1447 – 1506)

Leonardo da Vinci (1452 – 1519)

Giorgione (1478? – 1510)

Francesco Guicciardini (1483 – 1540)

Girolamo Fracastoro (1478 – 1553)

Niccolò Machiavelli (1469 – 1527)

Pietro Perugino (1450 – 1523)

Raffaello Sanzio (1483 – 1520)

Tiziano Vecellio (1488 – 1576)



ΥΡΟΘΕΣΙΣΟΙΔΙΡΟΔΟΣΤΥΡΑΝ ΝΟΥ ΕΜΜΕΤΡΟΣ ΡΑΡΑΡΙ ΣΤΟΦΑΝΟΥΣ.

Alaws Kopietor Oldinous, narpos rotos P por tur andrtur soldopoù peros firos, Η λόιν αυδί δαι αυδικών διασισ μάτων. Z HTEV LAUTOV, KALYLVOUS OUTO AD OPOV -Evpor di TAN por ir stras a pagitois. A KWY LTIOTE A ATOY MIVINTOPA. Epinios A Syrus Carasinor hisas ninos. Η γονι μπτρός άγνοου μίνης λίχος. Acques of OnBas que, nderevos panea. Kpiwr A re upseis dinginir rpos isiar, O was wider at you have y washplor. H novet quens partiens beer rapa, Tor adigor indinugarda poror. Ofer mater cauter Oidirous Tanas, Διαναις τι χερσίν ι ξανάλωστι κόρας. AUTHOR HATHP, anjoyaus diwasto.

ΔΙΑΤΙΤΥΡΑΝΝΟΣΕΓΙ ΓΕΓΡΑΓΤΑΙ.

Ο τύραντος Ο ιδίπους, επίδιακρίση θατέρε επι
γίρρα παι χαριέντως δετυραντον άπαντες αὐτὸν ἀπέ
γραφον, ὡς εξέχοντα πάσκς της Σοφοκλέους ποιήσε
ως, καίπερ ηπηθέντα ὑπὸ Φιλοκλέους, ὡς φκοι Δι
καίαρχος ἡσὶ δεκαιδιπρότερον αὐτὸν ἐτύραννον ἐπι
γράφοντες, διὰτοὺς χρόνους των διδασκαλιών, καὶ

Sià tà Toay Mata : annini pap nai Tupor Oidize da tor iti Konwigs tas Aburas apinteron . ide פר שנ דו אנאסי לפתונה לו עול O עוקסי אומות דפש אף פר TWY TOWING BASINES TUPATIOUS TOOSATOPEVETTES, è le more roude rou ovo paros es rous Examens dia δοδίντος κατά τους Αρχιλόχου χρόνους , καθά πιρ I wrias ocopisms oneir . O unpos your Tor warter raparo moraror Exeror, Basinia quel, nai ev ru раггот, Еіз Едетот Валійна Вротшт бийн шога - жро σαγοραδιται δε φατι τον πυραντον από των Τυρρκ ישר . אמאודאי אמף דוועה דוףו אשיוומי דעדשר אויו שמו. oufi Aiproir autor pertuburat and Tupu monews . gen THE SETUPATION HATATO ETUHOV, ONTE TUPETTES NAWS, και άνιας επιφέρων, και τυράνων δόλος κατά των υπ αύτον . ότι δε νεώτερον τότε τυράννου όνο μα ,δαλον. TTE TOP O MAPOS, STE H SIOSOS, STE WANDS & SET TWY TANALON , TUPATTON INTOIS TOIN MASTE OVO MAZE . O.S. Apisotians is Kumawa roaited, tous tupasseus woi . webriegor A iouurirus xporazopanda . iopa μοτερογγέκανο τουνο μα.

XPHΣMOΣΔΟΘΕΙΣΛΑΙΩ ΤΩΘΗΒΑΙΩ.

Λάτι λαβθακίδη , πάιδων γίνος όλβιον αίτεις ; Δώσω ποιφίλον ή όν - άτὰρ πιπρω μίνον ί εἰ Σοῦ παιδὸς χεριαι λιπίν φάος - ὢς γὰρ (νωσι Ζὰς κρονίδης Γίλοπος συγιρας ἀρασι πιδήσας , Οῦ φίλον ήρπασας ή ον - ὁδ' Νυξανό σοι τάδι πάντα .

- 11

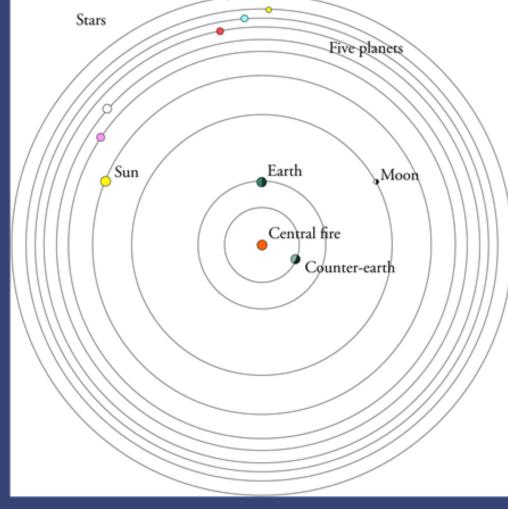
Aldus Manutius, Venetian humanist and famous printer of Latin and Greek books.

Sophocles, Tragaediae septem cum commentariis, 1502, published by Aldo Manuzio (Biblioteca Universitaria di Bologna).

Credibile est hisce similibus causis Philolaum mobilitate terrae sensisse, quod etiam nonnulli Aristarchum Samium ferunt in eadem fuisse sententia.

Manuscript of De Revolutionibus Orbius Coelestium. Not included in printed version.

Aristarchus of Samos (c. 310 - c. 230 BC) identified the "central fire" with the Sun and put the other planets in their correct order of distance around the Sun. His astronomical ideas were often rejected in favor of the geocentric theories of Aristotle (384–322 BC) and Ptolemy (c. 100 - c. 170 AD).



Philolaus' of Croton (c. 470 – 385 BC) cosmology (D.W. Graham, Arch. Hist. Exact Sci. (2015) 69:217)

Acknowledgements

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Bibliography

Bronislaw Bilinski, Messaggio e Itinerari Copernicani, Celebrazioni Italiane del V Centenario della nascita di Niccolò Copernico (1973)

Luigi Pepe, Copernico e lo Studio di Ferrara, Quinto centenario della laurea di Niccolò Copernico (2003)

Copernico a Padova, Atti della giornata Copernicana nel 450° della publicazione del De Revolutionibus Orbium Coelestium (1993)